

STIC-Biotech/ChemLib

125746

From: Switzer, Juliet
Sent: Thursday, January 05, 2006 4:38 PM
To: STIC-Biotech/ChemLib
Subject: please search

for 09/883839 in us issued, pgpub and interference databases only

SEQ ID NO 1 where the "T" at position 279 of SEQ ID NO: 1 is replaced with a "C";

SEQ ID NO 1 where the "T" at position 336 of SEQ ID NO: 1 is replaced with an "A";

SEQ ID NO 1 where the "C" at position 365 of SEQ ID NO: 1 is replaced with a "T";

SEQ ID NO 1 where the "G" at position 386 of SEQ ID NO: 1 is replaced with an "A";

SEQ ID NO 1 where the nucleotides "GGC" are inserted following position 401 of SEQ ID NO: 1.

Juliet Switzer
Art Unit 1634
phone: 571-272-0753
office: Remsen 2A61
mailbox: 2C70

RECEIVED
JAN - 5 2006
STIC

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model
Run on: January 8, 2006, 17:55:42 ; Search time 367.698 Seconds
(without alignments)
10451.753 Million cell updates/sec

Title: US-09-883-839-1-C279
Perfect score: 2162
Sequence: 1 ggaattccggctagacag.....gtggtttgttcctgggaattc 2162

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PCUS COMB.seq.*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2158.4	99.8	2162	3	US-09-351-198-1
2	2158.4	99.8	2162	3	US-09-113-426-1
3	2158.4	99.8	2162	3	US-09-016-434-1379
4	2148.8	99.4	2162	3	US-09-355-709C-7
5	2136.4	98.8	2160	3	US-08-188-275A-1
6	1551.4	71.8	1610	3	US-08-889-108-7
7	1551.4	71.8	1610	6	PCT-US94-10358-7
8	1198.2	55.4	1203	3	US-09-826-509-544
9	1177.4	54.5	2229	3	US-09-214-904-1
10	1163.6	53.8	1182	3	US-09-826-509-546
11	1147	53.1	1981	3	US-08-387-707-15
12	1147	53.1	1981	3	US-08-405-271A-15
13	1130.2	52.3	2135	3	US-08-430-286A-1
14	1099	50.8	1618	3	US-08-889-108-1
15	1099	50.8	1618	3	US-08-120-601B-1
16	1099	50.8	1618	3	US-08-120-601B-3
17	1099	50.8	1618	3	PCT-US94-10358-1
18	1099	50.8	1618	6	PCT-US94-10358-3
19	1099	50.8	1610	3	US-09-761-962A-16
20	1071	49.5	1610	3	US-09-761-962A-4
21	916.4	42.4	1542	3	US-09-761-962A-11
22	915	42.3	1365	3	US-09-761-962A-1
23	915	42.3	1423	3	US-09-761-962A-3
24	913.6	42.3	1334	3	US-09-761-962A-3

25	913.6	42.3	1729	3	US-09-761-962A-9	Sequence 9, Appli
26	913.6	42.3	2045	3	US-09-761-962A-10	Sequence 10, Appli
27	893.6	41.3	1346	3	US-09-761-962A-12	Sequence 12, Appli
28	803.6	37.2	1238	3	US-09-761-962A-2	Sequence 2, Appli
29	709.8	32.8	1257	3	US-09-761-962A-5	Sequence 5, Appli
30	695.2	32.2	830	3	US-08-387-707-13	Sequence 13, Appli
31	695.2	32.2	830	3	US-08-405-271A-13	Sequence 13, Appli
32	455.8	21.1	1275	3	US-09-341-446B-7	Sequence 7, Appli
33	454.2	21.0	1275	2	US-09-341-446B-5	Sequence 5, Appli
34	442	20.4	1829	2	US-08-411-859-1	Sequence 1, Appli
35	442	20.4	1829	3	US-08-387-707-7	Sequence 7, Appli
36	442	20.4	1829	3	US-08-405-271A-7	Sequence 7, Appli
37	442	20.4	2218	3	US-09-214-904-3	Sequence 3, Appli
38	442	20.4	2219	3	US-08-432-174A-1	Sequence 1, Appli
39	442	20.4	2272	3	US-08-147-592A-3	Sequence 3, Appli
40	442	20.4	2272	3	US-08-292-694A-3	Sequence 3, Appli
41	441.8	20.4	1773	3	US-09-016-434-1405	Sequence 1405, Ap
42	440.8	20.4	998	3	US-08-432-174A-3	Sequence 3, Appli
43	440.2	20.4	1119	3	US-09-826-509-538	Sequence 538, App
44	437.8	20.2	441	3	US-09-530-880-5	Sequence 5, Appli
45	434.8	20.1	1142	3	US-08-765-743-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-351-198-1
; Sequence 1, Application US/09351198
; Patent No. 6335168
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S
; APPLICANT: Yu, Lei
; APPLICANT: Tisfield, Jay A.
; TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THEREON
; FILE REFERENCE: 600-1-236N
; CURRENT APPLICATION NUMBER: US/09/351,198
; CURRENT FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: 60/092,402
; EARLIER FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2051)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
US-09-351-198-1

Query Match	99.8%	Score 2158.4;	DB 3;	Length 2162;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2161;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
Qy	1	GGAATTCGGCTATAGGCAGAGGAGATGTGATGTCTAGTCTCGTCCCTCCGCTTGA 60		
Db	1	GGAATTCGGCTATAGGCAGAGGAGATGTGATGTCTAGTCTCGTCCCTCCGCTTGA 60		
Qy	61	CGCTCCCTCTGCTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGAGAGTGTGGCAGC 120		
Db	61	CGCTCCCTCTGCTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGAGAGTGTGGCAGC 120		
Qy	121	GGCGAAAGGAGCGGCTGAGCGGCTTGGAAACCGGAAAGTCTCGGTGCTCTGGTACTT 180		

Db 121 GGCGAAGGAGCGGCTGAGCGCTTGGAAACCGAAAAAGTCTCGGTCTCTGGCTACCT 180
QY |||||
Db 181 CGCAGAGCGGTGCCCGCCCGGCGCTCAGTACCATGACACAGCAGCGTGCCTCCCAACG 240
|||
Db 181 CGCAGAGCGGTGCCCGCCCGGCGCTCAGTACCATGACACAGCAGCGTGCCTCCCAACG 240
|||
QY 241 CCAGCAATATGCACTGATGCTTGGCGTACTCAAGTTTGCCTCCAGCAGCAGCGCGGT 300
|||
Db 241 CCAGCAATATGCACTGATGCTTGGCGTACTCAAGTTTGCCTCCAGCAGCAGCGCGGT 300
|||
QY 301 CTTGGGTCAAATTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCCGAAACCGCA 360
|||
Db 301 CTTGGGTCAAATTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCCGAAACCGCA 360
|||
QY 361 CCAACCTGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
|||
Db 361 CCAACCTGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
|||
QY 421 CCATCAGCATATGGGCCCTCTACTCCATCGTGTGCGTGGTGGGCTCTTCGGAAACTTCC 480
|||
Db 421 CCATCAGCATATGGGCCCTCTACTCCATCGTGTGCGTGGTGGGCTCTTCGGAAACTTCC 480
|||
QY 481 TGGTCAATGATGTGATTTGTGAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
|||
Db 481 TGGTCAATGATGTGATTTGTGAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
|||
QY 541 TCAACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAAT 600
|||
Db 541 TCAACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAAT 600
|||
QY 601 ACCTAATGGAAACATGGCCATTTGGAAACCATCTTTGCAAGATGAGTATCTCCATAGATT 660
|||
Db 601 ACCTAATGGAAACATGGCCATTTGGAAACCATCTTTGCAAGATGAGTATCTCCATAGATT 660
|||
QY 661 ACTATAACATGTTTCAAGCAGATATTCACCTCTGCAACCATGAGTGTGATCGATACATTTG 720
|||
Db 661 ACTATAACATGTTTCAAGCAGATATTCACCTCTGCAACCATGAGTGTGATCGATACATTTG 720
|||
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTTACTTCCCGAATGCGAAATTTATCA 780
|||
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTTACTTCCCGAATGCGAAATTTATCA 780
|||
QY 781 ATGCTGCAACTGGATCTCTCTTCCAGCCATTCGCTCTCTGTAATGTTTCAATGGCTACAA 840
|||
Db 781 ATGCTGCAACTGGATCTCTCTTCCAGCCATTCGCTCTCTGTAATGTTTCAATGGCTACAA 840
|||
QY 841 CAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGTACT 900
|||
Db 841 CAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGTACT 900
|||
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTCACTTCCGCTTCAATATGCGAGTGTCTCATCA 960
|||
Db 901 GGGAAACCTCGTGAAGATCTGTGTTTCACTTCCGCTTCAATATGCGAGTGTCTCATCA 960
|||
QY 961 TTAACCTGTGCTATGAGTATGATCTTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
|||
Db 961 TTAACCTGTGCTATGAGTATGATCTTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
|||
QY 1021 CCAAGAAAGGACAGGAATCTTTCGAAGGATCACAGGATGTTGCTGGTGGTGGCTG 1080
|||
Db 1021 CCAAGAAAGGACAGGAATCTTTCGAAGGATCACAGGATGTTGCTGGTGGTGGCTG 1080
|||
QY 1081 TGTTCATGCTGCTGGACTCCCATTTCAATTTACGTCATCAATAAGCCTTGGTTACAA 1140
|||
Db 1081 TGTTCATGCTGCTGGACTCCCATTTCAATTTACGTCATCAATAAGCCTTGGTTACAA 1140
|||
QY 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACAA 1200
|||
Db 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACAA 1200
|||
QY 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACTTCAACAGATGCTTCA 1260
|||
Db 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACTTCAACAGATGCTTCA 1260
|||

QY 1261 GAGAGTTCTGTATCCAACTCTTCCAACTTGGCAACAAACTCCTCACTCGAATTCGTC 1320
|||
Db 1261 GAGAGTTCTGTATCCAACTCTTCCAACTTGGCAACAAACTCCTCACTCGAATTCGTC 1320
|||
QY 1321 AGAACACTAGAGACCACTCCCTCCAGGCCAATACAGTGTAGATAGAACTAATCATCAGCTAG 1380
|||
Db 1321 AGAACACTAGAGACCACTCCCTCCAGGCCAATACAGTGTAGATAGAACTAATCATCAGCTAG 1380
|||
QY 1381 AAAATCTGGAAGCAGAACTGCTCGTTCGCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
|||
Db 1381 AAAATCTGGAAGCAGAACTGCTCGTTCGCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
|||
QY 1441 CACCAAGCTTTAGAACCCATGTATGTGGAAGCAGGTTGCTTCAAGAATGTCTAGGAGG 1500
|||
Db 1441 CACCAAGCTTTAGAACCCATGTATGTGGAAGCAGGTTGCTTCAAGAATGTCTAGGAGG 1500
|||
QY 1501 CTCTAATCTCTAGGAAAGTGCTACTTTTAGGTCAATCAACCTCTTTCTCTGGCCA 1560
|||
Db 1501 CTCTAATCTCTAGGAAAGTGCTACTTTTAGGTCAATCAACCTCTTTCTCTGGCCA 1560
|||
QY 1561 CTCTGCTCTGCACTTAGAGGACAGCCAAAGTAAAGTGGAGCAITTTGGAAGAAAGGAA 1620
|||
Db 1561 CTCTGCTCTGCACTTAGAGGACAGCCAAAGTAAAGTGGAGCAITTTGGAAGAAAGGAA 1620
|||
QY 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
|||
Db 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
|||
QY 1681 GTATGTGAATTTGAAGTCAATATAAAGGTGACCTTCTGCTGTAAAGATTTTATTTCAA 1740
|||
Db 1681 GTATGTGAATTTGAAGTCAATATAAAGGTGACCTTCTGCTGTAAAGATTTTATTTCAA 1740
|||
QY 1741 GCAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA 1800
|||
Db 1741 GCAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA 1800
|||
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTGTAG 1860
|||
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTGTAG 1860
|||
QY 1861 TGTGTTTTGCAAGGGAATGAATCCATTTATTTTATGACTTTTAACTTTCAACTTTAAAT 1920
|||
Db 1861 TGTGTTTTGCAAGGGAATGAATCCATTTATTTATGACTTTTAACTTTCAACTTTAAAT 1920
|||
QY 1921 TAGCATCTGGCTAAGGATCATTTTCACTCCATTTCTTGGTTTTGTATGTTTAAAAA 1980
|||
Db 1921 TAGCATCTGGCTAAGGATCATTTTCACTCCATTTCTTGGTTTTGTATGTTTAAAAA 1980
|||
QY 1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAAGGAGAGATTAGCATGAAAGTAA 2040
|||
Db 1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAAGGAGAGATTAGCATGAAAGTAA 2040
|||
QY 2041 TCTGAAACACAGTCACTGTCTCANCTGTAGAAAGTTGATTCTCATGACCTNCAAACTT 2100
|||
Db 2041 TCTGAAACACAGTCACTGTCTCANCTGTAGAAAGTTGATTCTCATGACCTNCAAACTT 2100
|||
QY 2101 CCAAGAGTCACTCATGGGGATTTTTCATTTAGGCTTTTGTGTTGTTCTCTGGAAT 2160
|||
Db 2101 CCAAGAGTCACTCATGGGGATTTTTCATTTAGGCTTTTGTGTTGTTCTCTGGAAT 2160
|||
QY 2161 TC 2162
|||
Db 2161 TC 2162
|||

RESULT 2

US-09-113-426-1
; Sequence 1, Application US/09113426
; Patent No. 6337207
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S

APPLICANT: Yu, Lei
APPLICANT: Tischfield, Jay A.
TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
TITLE OF INVENTION: BASED THEREON
FILE REFERENCE: 600-1-226
CURRENT APPLICATION NUMBER: US/09/113,426
CURRENT FILING DATE: 1998-07-10
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 2162
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (2063)
OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
FEATURE:
NAME/KEY: misc feature
LOCATION: (2091)
OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
US-09-113-426-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 GGAATTCGGCTATAGGCAGAGGAGAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGCAGAGGAGAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Qy 61 CGCTCCTCTGCTCAGCCAGGAGTGGTTCTGTAGAAACAGCAGGAGCTGGGAGC 120
Db 61 CGCTCCTCTGCTCAGCCAGGAGTGGTTCTGTAGAAACAGCAGGAGCTGGGAGC 120
Qy 121 GGGCAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGCTACCT 180
Db 121 GGGCAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGCTACCT 180
Qy 181 CGCACAGCGGTGCCCGCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCGCCACGAA 240
Db 181 CGCACAGCGGTGCCCGCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCGCCACGAA 240
Qy 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCCCGCCGAGCACCGACCCCGGTT 300
Db 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCCCGCCGAGCACCGACCCCGGTT 300
Qy 301 CCTGGGTCACTTGTCCCACTTAGATGCAACCTGTCCGACCCATGGGTCCGAACCGCA 360
Db 301 CCTGGGTCACTTGTCCCACTTAGATGCAACCTGTCCGACCCATGGGTCCGAACCGCA 360
Qy 361 CCAACCTGGGCGGAGACAGCCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCAGG 420
Db 361 CCAACCTGGGCGGAGACAGCCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTCC 480
Db 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTCC 480
Qy 481 TGGTCATGATGATGCTCAGATACACCAAGATGAAGACTGCCAACCAATCTACATTT 540
Db 481 TGGTCATGATGATGCTCAGATACACCAAGATGAAGACTGCCAACCAATCTACATTT 540
Qy 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGAATT 600
Db 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGAATT 600
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Qy 661 ACTATAACATGTTACCAGCATATTTACCCCTCTGCACCATGATGTTGATCGATACATTG 720

Db 661 ACTATAACATGTTACCAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATATATCA 780
Qy 781 ATGTCTGCAACCTGGATCTCTCTTCCAGCCATTGGTCTTCTGTAAATGTTATGGCTACAA 840
Db 781 ATGTCTGCAACCTGGATCTCTCTTCCAGCCATTGGTCTTCTGTAAATGTTATGGCTACAA 840
Qy 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCACCTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCACCTGGTACT 900
Qy 901 GGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTTTCATTTATGCCAGTGTCTATCA 960
Db 901 GGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTTTCATTTATGCCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGAGATGATCATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGAGATGATCATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Qy 1021 CAAAAGAAAGGACAGGAATCTTCAAGGATCACCAGGATGGTGTCTGGTGGTGGCTG 1080
Db 1021 CAAAAGAAAGGACAGGAATCTTCAAGGATCACCAGGATGGTGTCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTCTGAGCTCCCATTCACATTTACGTCATCATTTAAAGCCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTCTGAGCTCCCATTCACATTTACGTCATCATTTAAAGCCCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACACAA 1200
Db 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACACAA 1200
Qy 1201 ACAGTGTCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAGGATGCTTCA 1260
Db 1201 ACAGTGTCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAGGATGCTTCA 1260
Qy 1261 GAGAGTCTGTATCCCAACCTCTTCCAACTTCCAGCAATTCAGCAACAACTCCACCTCGAATTCGTC 1320
Db 1261 GAGAGTCTGTATCCCAACCTCTTCCAACTTCCAGCAATTCAGCAACAACTCCACCTCGAATTCGTC 1320
Qy 1321 AGAACCTAGAGACCAACCTCCACGCGCAATACAGTGGATAGAACTAAATCATCAGCTAG 1380
Db 1321 AGAACCTAGAGACCAACCTCCACGCGCAATACAGTGGATAGAACTAAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAGCCACCATGATGTTGGAAGCAGGTTGCTTCAAGATGTGAGGAGG 1500
Db 1441 CACCAAGCTTAGAGCCACCATGATGTTGGAAGCAGGTTGCTTCAAGATGTGAGGAGG 1500
Qy 1501 CTCTAAATCTCTAGGAAAGTGCCTTCTTTAGGTCATCCAACTCTTCTCTCTCGGCA 1560
Db 1501 CTCTAAATCTCTAGGAAAGTGCCTTCTTTAGGTCATCCAACTCTTCTCTCTCGGCA 1560
Qy 1561 CTCTGCTCTGCAATTAGAGGACAGCCAAAAGTAAAGTGGAGCATTTGGAGAGGAGAA 1620
Db 1561 CTCTGCTCTGCAATTAGAGGACAGCCAAAAGTAAAGTGGAGCATTTGGAGAGGAGAA 1620
Qy 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Db 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Qy 1681 GTATGTGAATTTGAAGTCAATCAAAAAGGTGACCCCTTCTGTCTGTGAAGATTTATTTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTCAATCAAAAAGGTGACCCCTTCTGTCTGTGAAGATTTATTTTCAA 1740
Qy 1741 GCAAAATTTATGACCTTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCACCGTAGTACAA 1800

Db 1741 GCAATATTTATGACCTCAACAAAGAGAACCATCTTTTGTAAAGTTCCCGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGCACCTTGAAATGGAAGGTCGAGTCTTTTATAG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGCACCTTGAAATGGAAGGTCGAGTCTTTTATAG 1860
QY 1861 TGTTTTTGCAGGAATGAATCCATTTATCTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
Db 1861 TGTTTTTGCAGGAATGAATCCATTTATCTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGATCAATTTTCACTCCATTTCTTGGTTTGTATGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGATCAATTTTCACTCCATTTCTTGGTTTGTATGTTTAAAAA 1980
QY 1981 AATAACATCTCTTTTCATCTAGCTCCATTAATTGCAAGGAGAGATTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGCTCCATTAATTGCAAGGAGAGATTAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAAAATAC 2100
Db 2041 TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAAAATAC 2100
QY 2101 CCAAAGATCATATGGGGATTTTTCATTTCTTAGGCTTTCACTGTTTCTTCTGGAAT 2160
Db 2101 CCAAAGATCATATGGGGATTTTTCATTTCTTAGGCTTTCACTGTTTCTTCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 3

US-09-016-434-1379
; Sequence 1379, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1379:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2162 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 9452072
US-09-016-434-1379
Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGAGAGAGAAATGTCAAGATGCTCAGCTCGGTCCCTCCGCGCTGA 60
Db 1 GGAATTCGGCTATAGGAGAGAGAAATGTCAAGATGCTCAGCTCGGTCCCTCCGCGCTGA 60
QY 61 CGCTCCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
QY 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAACCCGGAAGAGTCTCGGTGCTCTCTGGGTACCT 180
Db 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAACCCGGAAGAGTCTCGGTGCTCTCTGGGTACCT 180
QY 181 CGCAGCGGTGCCCCGCGCGCTGCTAGTACCATGGAAGCAGCAGCTGCCCCCAAGAACG 240
Db 181 CGCAGCGGTGCCCCGCGCGCTGCTAGTACCATGGAAGCAGCAGCTGCCCCCAAGAACG 240
QY 241 CCAGCAATTGCACTGATGCCTTGGCGTACTCAAGTTGCCCGCCAGCAGCCAGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCCTTGGCGTACTCAAGTTGCCCGCCAGCAGCCAGCCCGGTT 300
QY 301 CCTGGGTCAACTTGTCCCACTTAGATGCAACCTCTCGACCCATCGCGTCCGAAACCGCA 360
Db 301 CCTGGGTCAACTTGTCCCACTTAGATGCAACCTCTCGACCCATCGCGTCCGAAACCGCA 360
QY 361 CCAACTGGGGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
Db 361 CCAACTGGGGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
QY 421 CCATCAGCATCATGCGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGAAACTTCC 480
Db 421 CCATCAGCATCATGCGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGAAACTTCC 480
QY 481 TGGTCATGTATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTTGCTCTGGCAGATGCTTTAGCCACAGTACCTCGCTCCAGAGTGTGAATTT 600
Db 541 TCAACCTTTGCTCTGGCAGATGCTTTAGCCACAGTACCTCGCTCCAGAGTGTGAATTT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
QY 661 ACTATAACATGTTTACACAGCATATTCACCTCTGCAACCATGAGTGTGATCGATACATTTG 720
Db 661 ACTATAACATGTTTACACAGCATATTCACCTCTGCAACCATGAGTGTGATCGATACATTTG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTTAGATTTCCGTACTCCCCGAAATGCCAAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTTAGATTTCCGTACTCCCCGAAATGCCAAAATATATCA 780
QY 781 ATGCTGCAACTGGATCCTCTCTTCAGCCATTTGCTTCTGTATGTTTCATGGGTACAA 840
Db 781 ATGCTGCAACTGGATCCTCTCTTCAGCCATTTGCTTCTGTATGTTTCATGGGTACAA 840
QY 841 CAAAATACAGCAAGGTTTCCATAGATTGTAACATAACTTCTCTCAACCTCGGTACT 900
Db 841 CAAAATACAGCAAGGTTTCCATAGATTGTAACATAACTTCTCTCAACCTCGGTACT 900
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTGGCTTCATTATGCCAGTGCATCA 960
Db 901 GGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTGGCTTCATTATGCCAGTGCATCA 960

Qy 961 TTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Qy 1021 CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGGCTG 1080
Db 1021 CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGGCTG 1080
Qy 1081 TGTTTCATGCTGCTGGACTCCCAATTCACATTTAGTCATCATTTAAAGCCCTTGGTTACAA 1140
Db 1081 TGTTTCATGCTGCTGGACTCCCAATTCACATTTAGTCATCATTTAAAGCCCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTACCTTCCAGACTGTTTCTGGCACTTCTGATGCTCTAGTTTACAA 1200
Db 1141 TCCAGAAACTACCTTCCAGACTGTTTCTGGCACTTCTGATGCTCTAGTTTACAA 1200
Qy 1201 ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTCA 1260
Db 1201 ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTCA 1260
Qy 1261 GAGAGTCTGTATCCCACTCTTCCAACTATGAGCAACAAAACCTCACTCGAATTCGTC 1320
Db 1261 GAGAGTCTGTATCCCACTCTTCCAACTATGAGCAACAAAACCTCACTCGAATTCGTC 1320
Qy 1321 AGAACCTAGAGCACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACCTAGAGCACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAACTCTCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTCTCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCACCATGATGTGGAAGCAGGTGCTTCAAGATGTGTAGAGG 1500
Db 1441 CACCAAGCTTAGAAGCACCATGATGTGGAAGCAGGTGCTTCAAGATGTGTAGAGG 1500
Qy 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTAGTGCATCCACCTCTTCTCTCTGCGCA 1560
Db 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTAGTGCATCCACCTCTTCTCTCTGCGCA 1560
Qy 1561 CTCTGCTCTGACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGAAAGAAAGAA 1620
Db 1561 CTCTGCTCTGACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGAAAGAAAGAA 1620
Qy 1621 TATACCAACCGAGAGTCCAGTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Db 1621 TATACCAACCGAGAGTCCAGTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Qy 1681 GTATGTGAATTTGAAGTCATCAATAAGGTGACCTTCTGCTGTGAAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTCATCAATAAGGTGACCTTCTGCTGTGAAGATTTTATTTCAA 1740
Qy 1741 GCAATATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA 1800
Db 1741 GCAATATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA 1800
Qy 1801 CATAAAGTAATGCTTACCTCTGATCAAGACCTTTGAATGAAAGTCCGAGTCTTTTATG 1860
Db 1801 CATAAAGTAATGCTTACCTCTGATCAAGACCTTTGAATGAAAGTCCGAGTCTTTTATG 1860
Qy 1861 TGTTTTTCAAGGGATGAATCCATTTCTATTTTAGACTTTTAACTTTCACTTTAAAT 1920
Db 1861 TGTTTTTCAAGGGATGAATCCATTTCTATTTTAGACTTTTAACTTTCACTTTAAAT 1920
Qy 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCTCAATTTCTGGTTTGTATTTGTTAAAAA 1980
Db 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCTCAATTTCTGGTTTGTATTTGTTAAAAA 1980
Qy 1981 AATAACATCTCTTTTCATCTAGTCCATAATTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGTCCATAATTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040

Qy 2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAAGTTGATTTCTCATGCACCTNCAAACTACTT 2100
Db 2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAAGTTGATTTCTCATGCACCTNCAAACTACTT 2100
Qy 2101 CCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTCTCTGGAAT 2160
Db 2101 CCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162
RESULT 4
US-09-355-709C-7
; Sequence 7, Application US/09355709C
; Patent No. 6538120
; GENERAL INFORMATION:
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...
; FILE REFERENCE: 101195-15
; CURRENT APPLICATION NUMBER: US/09/355,709C
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: DE 197 03 925.1
; PRIOR FILING DATE: 1997-02-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic
; OTHER INFORMATION: Clone
; OTHER INFORMATION: cDNA encoding human opiate receptor
; NAME/KEY: unsure
; LOCATION: (2063)
; OTHER INFORMATION: n = unknown
; NAME/KEY: unsure
; LOCATION: (2091)
; OTHER INFORMATION: n = unknown
; US-09-355-709C-7
Query Match 99.4%; Score 2148.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2152; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 9 GGCCTATAGGACAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTC 68
Db 9 GGCCTATAGGACAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTC 68
Qy 69 TCTGTCTCAGCAGGAGTCTGTTCTGTAAGAAACAGCAGGAGCTGTGSCAGCGCGAAAG 128
Db 69 TCTGTCTCAGCAGGAGTCTGTTCTGTAAGAAACAGCAGGAGCTGTGSCAGCGCGAAAG 128
Qy 129 GAACGGCTCAGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTTACCTCGCACAGC 188
Db 129 GAACGGCTCAGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTTACCTCGCACAGC 188
Qy 189 GGTGCCCGCCGCGCTCAGTACCATGGAAGAGCGCTGCCCCACGAAACCGCCAGCAAT 248
Db 189 GGTGCCCGCCGCGCTCAGTACCATGGAAGAGCGCTGCCCCACGAAACCGCCAGCAAT 248
Qy 249 TGCACTGATGCTTGGGCTACTCAAGTTGCCCGCCAGCACCCAGCCCGGTTCTTGGGTC 308
Db 249 TGCACTGATGCTTGGGCTACTCAAGTTGCCCGCCAGCACCCAGCCCGGTTCTTGGGTC 308
Qy 309 AACTTGTCCCACTTAGATGGAACCTGTCCGACCATCGGTCCGAAACCGCAACCAACTG 368
Db 309 AACTTGTCCCACTTAGATGGAACCTGTCCGACCATCGGTCCGAAACCGCAACCAACTG 368
Qy 369 GGCGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGCCATCAGC 428
Db 369 GGCGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGCCATCAGC 428


```
;
;
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
;   NAME: Murphy Jr., Gerald M.
;   REGISTRATION NUMBER: 28,977
;   REFERENCE/DOCKET NUMBER: 1173-449P
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 703-241-1300
;   TELEFAX: 703-241-2848
;   TELEX: 248345
;
; INFORMATION FOR SEQ ID NO: 1:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 2160 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: double
;     TOPOLOGY: linear
;   MOLECULE TYPE: cdna
;   FEATURE:
;     NAME/KEY: -
;     LOCATION: 1..2160
;     OTHER INFORMATION: /label= cdna
;     OTHER INFORMATION: /note= "cdna encoding human mu opiate receptor"
;
; US-08-188-275A-1
;
; Query Match      98.8%; Score 2136.4; DB 3; Length 2160;
; Best Local Similarity 99.9%; Pred. No. 0;
; Matches 2159; Conservative 0; Mismatches 1; Indels 2; Gaps 2;
;
; Qy 1 GGAATTCGGGTATAGGAGAGGAGATGTGAGATGCTCAGTGGTCTCGTCCCTCGGCTGA 60
; Db |
; Qy 61 CGCTCCTCTGCTCAGCCAGGAGTGGTTCTGTAAGAAACACAGAGAGTGGCAGC 120
; Db |
; Qy 61 CGCTCCTCTGCTCAGCCAGGAGTGGTTCTGTAAGAAACACAGAGAGTGGCAGC 120
; Db |
; Qy 121 GGGCAAGAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTGGCTACCT 180
; Db |
; Qy 121 GGGCAAGAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTGGCTACCT 180
; Db |
; Qy 181 CGCAGCGGTGCCCGGCGGCGCTGAGTACCATGTGAGCAGAGCGGTGCCCGCCAGCAAGC 240
; Db |
; Qy 181 CGCAGCGGTGCCCGGCGGCGCTGAGTACCATGTGAGCAGAGCGGTGCCCGCCAGCAAGC 240
; Db |
; Qy 241 CCAGCAATTGCACTGATGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTT 300
; Db |
; Qy 241 CCAGCAATTGCACTGATGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTT 300
; Db |
; Qy 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACCGCA 360
; Db |
; Qy 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACCGCA 360
; Db |
; Qy 361 CCAACCTGGGGGAGAGACAGCCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCAGG 420
; Db |
; Qy 361 CCAACCTGGGGGAGAGACAGCCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCAGG 420
; Db |
; Qy 421 CCATCAGCATCATGGCCCTCTACTCCATCGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 480
; Db |
; Qy 421 CCATCAGCATCATGGCCCTCTACTCCATCGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 480
; Db |
; Qy 481 TGGTCACTGATGTGATGTGATGATACACCAAGATGAAGACTGCCACCAACCACTTACATTT 540
; Db |
; Qy 481 TGGTCACTGATGTGATGTGATGATACACCAAGATGAAGACTGCCACCAACCACTTACATTT 540
; Db |
; Qy 541 TCAACCTTTGCTCTGGCAGATGCTTAGCCACAGGATACCCCTGCCCTTCCAGAGTGAATTT 600
; Db |
; Qy 541 TCAACCTTTGCTCTGGCAGATGCTTAGCCACAGGATACCCCTGCCCTTCCAGAGTGAATTT 600
; Db |
; Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATT 660
; Db |
; Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATT 660
; Db |
; Qy 661 ACTATAACATGTTACACGAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTG 720
; Db |
```

1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCCGAGTCTTTTATG 1860
1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCCGAGTCTTTTATG 1860
1861 TGTTTTGCAAGGGAATGAATCAATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1861 TGTTTTGCAAGGGAATGAATCAATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGCATCATTTTCACTTCCATTTCTTGGTTTGTATTTGTTTAAATA 1980
1921 TAGCATCTGGCTAAGGCATCATTTTCACTTCCATTTCTTGGTTTGTATTTGTTTAAATA 1980
1981 AATAACATCTCTTTTCACTAGCTCCATTAATGCAAGGAGAGATTAGCATGAAGGTAA 2040
1981 AATAACATCTCTTTTCACTAGCTCCATTAATGCAAGGAGAGATTAGCATGAAGGTAA 2040
2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAGTTTGAATCTCATGCATTCNCAATATCT 2100
2041 TCTGAAACACAGTCATGTGTCA-CTGTAGAAAGTTTGAATCTCATGCATTCNCAATATCT 2098
2101 CCAAGAGTCATCATCGGGGATTTTCAATCTTTAGGCTTTCAGTGGTTTCTCTGGAAT 2160
2099 CCAAGAGTCATCATCGGGGATTTTCAATCTTTAGGCTTTCAGTGGTTTCTCTGGAAT 2158
2161 TC 2162
2159 TC 2160

RESULT 6
US-08-889-108-7
Sequence 7, Application US/08889108
Patent No. 6103492
GENERAL INFORMATION:
APPLICANT: Yu, Lei
TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESS: Arnold, White & Durkee
STREET: P. O. Box 4433
CITY: Houston
STATE: TX
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/889,108
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/305,518
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Wilson, Mark B.
REGISTRATION NUMBER: 37,259
REFERENCE/DOCKET NUMBER: INDA005WIM
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512-418-3000
TELEFAX: 512-474-7577
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1610 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
US-08-889-108-7

Query Match 71.8%; Score 1551.4; DB 3; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
QY 9 GGCATATAGCAGAGGAGAAATGTCCAGTCTCAGCTGGTCCCTCCGCTGAGCGTCCCTC 68
DB 36 GGCATATAGCAGAGGAGAAATGTCCAGTCTCAGCTGGTCCCTCCGCTGAGCGTCCCTC 95
QY 69 TCTGTCTCAGCAGGACTGGTTTCTGTAAAGAACAGCAGAGAGCTGTGGCAGCGGGAAG 128
DB 96 TCTGTCTCAGCAGGACTGGTTTCTGTAAAGAACAGCAGAGAGCTGTGGCAGCGGGAAG 155
QY 129 GAAGCGGCTGAGCGCTTGGAAACCGMAAAGTCTCGGTCTCTCTGGCTACCTCGCACAGC 188
DB 156 GAAGCGGCTGAGCGCTTGGAAACCGMAAAGTCTCGGTCTCTCTGGCTACCTCGCACAGC 215
QY 189 GGTGCCCGCCCGGCGCTCAGTACCATGGACAGAGCGCTGCCGCCCAAGACGACCAAT 248
DB 216 -GTGCCCGCCCGGCGCTCAGTACCATGGACAGAGCGCTGCCGCCCAAGACGACCAAT 274
QY 249 TGCACATGATCCCTTGGCGTACTCAAGTTGCCCGCCAGCAGCAGCGCGCTTCTGGGTC 308
DB 275 TGCACATGATCCCTTGGCGTACTCAAGTTGCCCGCCAGCAGCAGCGCGCTTCTGGGTC 334
QY 309 AACTTTGTCCACTTAGATGGCAACCTGTCCGACCCATGGGTCCGAACCGCAACCTG 368
DB 335 AACTTTGTCCACTTAGATGGCAACCTGTCCGACCCATGGGTCCGAACCGCAACCTG 394
QY 369 GCGGGGAGAGACAGCGCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCAAGCGCATAC 428
DB 395 GCGGGGAGAGACAGCGCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCAAGCGCATAC 454
QY 429 ATCATGGCCCTTACTCCATGTGTGGTGGGCTCTTCGGAACCTTCTGGTGTATG 488
DB 455 ATCATGGCCCTTACTCCATGTGTGGTGGGCTCTTCGGAACCTTCTGGTGTATG 514
QY 489 TATGTGATTTGTCAGATACACCAAGATGAAGTGTCCACCAACATCTTACATTTTCAACCTT 548
DB 515 TATGTGATTTGTCAGATACACCAAGATGAAGTGTCCACCAACATCTTACATTTTCAACCTT 574
QY 549 GCTCTGGCAGATGCTTGAAGCAACAGTACCTCGCCCTTCCAGAGTGTGAATTAATG 608
DB 575 GCTCTGGCAGATGCTTGAAGCAACAGTACCTCGCCCTTCCAGAGTGTGAATTAATG 634
QY 609 GGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAAC 668
DB 635 GGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAAC 694
QY 669 ATGTTTCAAGCAGATATTCACCTCTGACCATGAGTGTGATCGATACATTCAGTCTGC 728
DB 695 ATGTTTCAAGCAGATATTCACCTCTGACCATGAGTGTGATCGATACATTCAGTCTGC 754
QY 729 CACCTCTCAAGGCTTAGATTTCGGTACTCCCGAAATGCCAAATTTATCAATGTCG 788
DB 755 CACCTCTCAAGGCTTAGATTTCGGTACTCCCGAAATGCCAAATTTATCAATGTCG 814
QY 789 AACTGGATCTCTTTCAGCCATTTGGTCTTCTGTAAATGTTTATGGCTACCAAAATAC 848
DB 815 AACTGGATCTCTTTCAGCCATTTGGTCTTCTGTAAATGTTTATGGCTACCAAAATAC 874
QY 849 AGGCAAGGTTCCATAGATTGTACACTAACATTTCTCTCCAAACCTGGTACCTGGGAAAC 908
DB 875 AGGCAAGGTTCCATAGATTGTACACTAACATTTCTCTCCAAACCTGGTACCTGGGAAAC 934
QY 909 CTCTGTAAGATCTGTGTTTTCATCTTGGCTTTCATTTATGCGAGTGTCTATTCACCTG 968
DB 935 CTCTGTAAGATCTGTGTTTTCATCTTGGCTTTCATTTATGCGAGTGTCTATTCACCTG 994
QY 969 TCGTATGAGCTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1028
DB 995 TCGTATGAGCTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1054
QY 1029 AAGGACAGGAATCTTTCGAAGGATCACCAGGATGGTGTGGTGTGGTGTGGTGTGGT 1088

QY 1233 CTGGATGAACCTTCAACGATGCTTCAGAGAGTCTGTATCCCAACCTCTTCCAACTT 1292
Db 1021 CTGGATGAACCTTCAACGATGCTTCAGAGAGTCTGTATCCCAACCTCTTCCAACTT 1080
QY 1293 GAGCAACAAACTCCCACTCGAATTCGTTCAGAACTAGAGACCACTCCCAACGCAAT 1352
Db 1081 GAGCAACAAACTCCCACTCGAATTCGTTCAGAACTAGAGACCACTCCCAACGCAAT 1140
QY 1353 ACAGTGATAGAACTTAATCATAGCTAGAAAAATCTGGAAGCAGAAATGCTCGTTGCC 1412
Db 1141 ACAGTGATAGAACTTAATCATAGCTAGAAAAATCTGGAAGCAGAAATGCTCGTTGCC 1200
QY 1413 TAA 1415
Db 1201 TAA 1203

RESULT 9
US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; TITLE OF INVENTION: OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR97/01282
; FILING DATE:
; APPLICATION NUMBER: FR 96.08810
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
; US-09-214-904-1

Query Match 54.5%; Score 1177.4; DB 3; Length 2229;
Best Local Similarity 77.8%; Pred. No. 4.1e-300;
Matches 1542; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

QY 9 GGCTATAGGACGAGAGAGTGTAGATGCTCAGCTCGGTCCCTCCCGCTGACGCTCCTC 68
Db 52 GGATACAAGCAGAGAGAGATATCGAGCGCTCAG-ACGTTCCATTTCTGCCTGCCGCTCTC 110
QY 69 TCTGTCTCAGCCAGGAGTGTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
Db 111 TCTGGTTCCATAGGGCTTGTCTGTGTAAGAAATCTGACGGAGCCTAGGGAGCTGTGAGA 170
QY 128 GGAAGCGGCTGAGCGGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAG 187
Db 171 GGAAGAGGCTGGGGGCTGGAAACCGAACTCTTGAGTGTCTCTAGTTACAGCCTACC 230
QY 188 CGGTGCCCGCCCGCGCTGAGTACATGGAACAGAGCGCTGCCCGCCAGAAACGCGCAGAA 247
Db 231 GAGTCCGACGAAAGCAATTCAGAAACCATGGACAGCAGCGCGCGCCAGGAAACATCAGCGA 290
QY 248 TTGCACTGATGCTTGGCGTACTCAAGTTGCCCCCAGCAGCCCGGTTCTTCTGGGT 307

Db 291 CTGCTCTGACCCCTTAGCTTCCTGCAAGTTGGTCCCAGCA-----CCTGGCTCTGGCT 344
QY 308 CAACTTGTCCTCCACTTAGATGGCAACCTGTCCGACCCATCGGTCCGAAACCGCAACCACT 367
Db 345 CAACTTGTCCTCCACTTAGATGGCAACCTGTCCGACCCATCGGTCCGAAACCGCAACCACT 404
QY 368 GGGCGGAGAGAGACAGCTGTGCCCTCCGACCGGACGTCCCTCCATGATACAGGCCATCAC 427
Db 405 TGGGGGAGGACACAGCTGTGCCCTCAGACCGGACGCTTCCATGGTCACAGCCATCAC 464
QY 428 GATCATGGCCCTCTACTCCATCGTGTGGGTGGGCTCTTCGGAAACTTCCTGGTGCAT 487
Db 465 CATCATGGCCCTCTACTCTATCGTGTGTAGTGGGCTCTTTTGGAAACTTCCTGGTGCAT 524
QY 488 GTATGTGATTGTTCAGATACACCAAGATGAAGCTGCCACCAACATCTACATTTTCAACCT 547
Db 525 GTATGTGATTGTGAAGATATACCAAAATGAAGCTGCCACCAACATCTACATTTTCAACCT 584
QY 548 TGCTCTGGCAGATGCTTACCCACCACTAGTACCTTCCGCTTCCAGAGTGTGAATTACCTAAT 607
Db 585 TGCTCTGGCAGATGCTTACCCACCACTAGCAGCGCTGCCCTTTCAGAGTGTAACTACCTGAT 644
QY 608 GGGAAACATGGCCATTTGGAAACCATCTTTTGCAGAGTAGTATCTCCATAGATTACTATAA 667
Db 645 GGGAACTGGCCCTTTTGGAAACCATCTCTGCAAGATCGTGATCTCAATAGACTACTACAA 704
QY 668 CATGTTCCAGCATATTCACCTCTGCACCATGAGTGTGTGATCGATACATTTGCAGTCTG 727
Db 705 CATGTTCCAGCATATCTTACCTCTGCACCATGAGTGTGATCGATACATTTGCAGTCTG 764
QY 728 CCACCTGTCAAGGCTTATAGATTTCCGTACTCTCCCGAAATGCCAAATTTATCAATGTCG 787
Db 765 CCACCTGTCAAGGCTTATAGATTTCCGTACTCTCCCGAAATGCCAAATTTATCAATGTCG 824
QY 788 CAACTGGATCTCTCTTCAGGCAATTCGTCTTCTGTAATGTTTCATGGCTCAACAATA 847
Db 825 CAACTGGATCTCTCTTCAGGCAATTCGTCTTCTGTAATGTTTCATGGCTCAACAATA 884
QY 848 CAGGCAAGTTCATAGATTGTACACTTACATTTCTCATCCAACTGGTACTGGGAAA 907
Db 885 CAGGCAAGTTCATAGATTGTACACTTACATTTCTCATCCCACTGGTACTGGGAAA 944
QY 908 CTTCTGTAAGATCTGTGTTTTTCATTTTCGCTTTCATTTATGCCAGTGTCTCATTTACCGT 967
Db 945 CTTCTGTAAGATCTGTGTTTTTCATTTTCGCTTTCATTTATGCCAGTGTCTCATTTACCGT 1004
QY 968 GTGCTATGGAATCATGATTTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027
Db 1005 GTGCTATGGAATCATGATTTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1064
QY 1028 AAAGGACAGGAATCTTTCGAGAGATCACCAGATGGTGTCTGGTGTGGTGTGGTGTTCAT 1087
Db 1065 AAAGGACAGGAATCTTTCGAGAGATCACCAGATGGTGTCTGGTGTGGTGTGGTGTTCAT 1124
QY 1088 CGTCTGTCGACTCCCACTTCAATTTACGTTCATTTAAAGCTTGTGTGTGTGTGTGTGTGTGT 1147
Db 1125 TGTCTGTCGACCCCACTCCACATCTATGTTCATCATCANAGCACTGATCAGATTCCAGA 1184
QY 1148 AACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTTACACAAACAGCTG 1207
Db 1185 AACCACTTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTTACACAAACAGCTG 1244
QY 1208 CCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACCTTCAAGATGCTTTCAGAGATT 1267
Db 1245 CCTGAAACCCAGTCTTTTATGCAATTTCTGGATGAAACCTTCAAGATGCTTTCAGAGATT 1304
QY 1268 CTGTATCCCAACCTCTTCCAACTTGAAGCAACAAACTCCACCTCGAATTCGTTCAGAACAC 1327
Db 1305 CTGTATCCCAACCTCTTCCAACTTGAAGCAACAAACTCCACCTCGAATTCGTTCAGAACAC 1364
QY 1328 TAGAGACCAACCTCTTCCAACTTGAAGCAACAAACTCCACCTCGAATTCGTTCAGAACAC 1387

Db 1365 TAGGGAACACCCCTCCACGGCTAATAACAGTGGATCGAACTAACCCAGCTAGAAAATCT 1424
Qy 1388 GGAAGCAGAAAACCTGCTCCGTTGCCCTTAAACAGGCTCTCATGCGCATTCGACCTTACCAAG 1447
Db 1425 GGAAGCAGAAAACCTGCTCCATTTGCCCTTAACTGGGTCCACGCCATCCAGACCCCTCGCTAAA 1484
Qy 1448 CTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGGAGCTCTAAT 1507
Db 1485 CTTAGAGGCTGCCATCTACTTGGAAATCAGGTTGCTGTAGGTTTGTGGAGGCTCTGGT 1544
Qy 1508 TCTCTAGGAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCCACTGTCT 1567
Db 1545 TTCTCGAAAAGCATCTGATCTCTGCATCAATCAAGTCAATCTCTCTCTGCTGCTATTCA-CG 1603
Qy 1568 CTGCACATTAGAGGGAACGCAAAAGTAAGTGGAGCAATTTGGAAGGAAGGAATATACCA 1627
Db 1604 CTACACGTCAGAGACACTC---AGACTGTGTCAAGCACTCAGAAGGAAGAGACTGCAGGC 1660
Qy 1628 CACCGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCCATCGTGTATG 1685
Db 1661 CACTACTGAATCAGCTCATGTACAGAAACATCCAATGGACCAACAATCTCTGTGGTATG 1720
Qy 1686 TGAATTTGAAGTCATATAAAAGTGACCCCTTCTGTCTGT- AAGATTTTATTTTCAAGCAA 1744
Db 1721 TGAATTTGTGATCAACATAGAGAGTGACCCCTTCCCTATGTGGAATTTTAAATTTCAAGGAA 1780
Qy 1745 ATATTTATGACCTCAACAAAGAAAGAACCA----TCTTTTGTAAAGTTTACCGTAGTAACA 1800
Db 1781 ATACTTATGATCTCATCAAGGGGAAAATAGATGTCACCTTGTTTAAATTTCACTGTAGTAGT 1840
Qy 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCCTGCTTTTATG 1860
Db 1841 CATAAAGGAAAGACTACCTCTGACCTTAGCCCAAGTCAACCTCTATGGAAGTTCCATAG 1900
Qy 1861 TGTTTTTCGAAGGGAATGAATCCATTATTCTATTTTATAGACTTTTAACTTTCAACTTAAAAAT 1920
Db 1901 GGAATATGTGAGGGAA-----AATGTGCTTCCAAATTTAAATTTTCACTTTATGT 1951
Qy 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTTCTTGGTTTGTATTTGTTTAAAAA 1980
Db 1952 TATAGTCTAGTTAAGACATCAGGGGCATCTCTGTTTCTTGGTTTGTATTTGTTGAAGA 2011
Qy 1981 A 1981
Db 2012 A 2012

RESULT 10
US-09-826-509-546
; Sequence 546, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 546
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-546
Query Match 53.8%; Score 1163.6; DB 3; Length 1182;

Best Local Similarity 99.7%; Pred. No. 1.3e-296;
Matches 1166; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 213 ATGGACAGAGGCGTCCCGCCACGAAACGACCAATTTGACATGATGCGCTTTGGCGTACTCA 272
Db 1 ATGGACAGAGGCGTCCCGCCACGAAACGACCAATTTGACATGATGCGCTTTGGCGTACTCA 60
Qy 273 AGTTGCCCGCCACAGCAGCCAGCCCGGTTCTCGGGTCAACTTCTCCACATTTAGATGGCAAC 332
Db 61 AGTTGCTCCCGACAGCAGCCAGCCCGGTTCTCGGGTCAACTTCTCCACATTTAGATGGCAAC 120
Qy 333 CTGTCCGACCCATGCGGTCGGAACCGCACCACTTGGGCGGAGAGACAGCCCTGTGCCCT 392
Db 121 CTGTCCGACCCATGCGGTCGGAACCGCACCACTTGGGCGGAGAGACAGCCCTGTGCCCT 180
Qy 393 CCGACCGGAGTCCCTCATGATCAGGCGCATCAGATCATGCGCCCTCTACTCCATCGTG 452
Db 181 CCGACCGGAGTCCCTCATGATCAGGCGCATCAGATCATGCGCCCTCTACTCCATCGTG 240
Qy 453 TCGGTGTTGGGCTCTTCGGAACCTTCTGGTCAATGATGATGATGATGATGATGATGATGATGAT 512
Db 241 TCGGTGTTGGGCTCTTCGGAACCTTCTGGTCAATGATGATGATGATGATGATGATGATGATGAT 300
Qy 513 ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTTAGCCACC 572
Db 301 ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTTAGCCACC 360
Qy 573 AGTACCTTCCCTTCCAGAGTGAATTTACCTAATTTGGGAAACATGGCCATTTGGAACCATC 632
Db 361 AGTACCTTCCCTTCCAGAGTGAATTTACCTAATTTGGGAAACATGGCCATTTGGAACCATC 420
Qy 633 CTTTCCAGATAGTATCTCCATAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 692
Db 421 CTTTCCAGATAGTATCTCCATAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 480
Qy 693 TGCACCATGAGTGTGATCGATACATTTGCAGTCTGCCACCTGTCAAAGCCTTTAGATTTTC 752
Db 481 TGCACCATGAGTGTGATCGATACATTTGCAGTCTGCCACCTGTCAAAGCCTTTAGATTTTC 540
Qy 753 CGTACTCCCGAAATGCCAAATTTATCAATGTCGCAACTGGATCTCTCTTTCAGCCATT 812
Db 541 CGTACTCCCGAAATGCCAAATTTATCAATGTCGCAACTGGATCTCTCTTTCAGCCATT 600
Qy 813 GGTCTTCTGTAATGTCATGCTACAAATAACAGCAAGGTTCCATAGATTTGTACA 872
Db 601 GGTCTTCTGTAATGTCATGCTACAAATAACAGCAAGGTTCCATAGATTTGTACA 660
Qy 873 CTAAACATTTCTCATCCAACTGGTACTGGGAAAACTCGTGAAGATCTGTGTTTTCATC 932
Db 661 CTAAACATTTCTCATCCAACTGGTACTGGGAAAACTCGTGAAGATCTGTGTTTTCATC 720
Qy 933 TTGCGCTTCATTTATGCGAGTGTCTCATCTACCGTGTGCTATGGAGTATGATCTTGGCG 992
Db 721 TTGCGCTTCATTTATGCGAGTGTCTCATCTACCGTGTGCTATGGAGTATGATCTTGGCG 780
Qy 993 CTCAGAGTGTCCGATGCTCTCTCGCTCCAAAGAAAAAGGACAGGAATCTTCGAAGGATC 1052
Db 781 CTCAGAGTGTCCGATGCTCTCTCGCTCCAAAGAAAAAGGACAGGAATCTTCGAAGGATC 840
Qy 1053 ACCAGGATGCTGCTGGTGGTGGTGTGTTTTCATGCTGCTGAGCTCCCATTTCACTTT 1112
Db 841 AAGAGATGCTGCTGGTGGTGGTGTGTTTTCATGCTGCTGAGCTCCCATTTCACTTT 900
Qy 1113 TACGTCATCAATTAAGCCCTTGGTTACAATCCAGAAAACTACGTTCCAGACTGTTTCTGG 1172
Db 901 TACGTCATCAATTAAGCCCTTGGTTACAATCCAGAAAACTACGTTCCAGACTGTTTCTGG 960
Qy 1173 CACTTCTGCTAGTGTCTAGTTTACAAACAGCTGCTCAACCCAGTCTTTTATGCTTTT 1232
Db 961 CACTTCTGCTAGTGTCTAGTTTACAAACAGCTGCTCAACCCAGTCTTTTATGCTTTT 1020
Qy 1233 CTGGATGAAAACTTCAACGATGCTTTCAGAGAGTTCTGTATGCCAACCTCTTTCACACTTT 1292

Db 1021 CTGGATGAAATCTCAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAACTT 1080

Qy 1293 GAGCAACAAATCTCACTCGAATTCGTACAGACACTAGAGACCAACCCCTCCAGGCCAAT 1352

Db 1081 GAGCAACAAATCTCACTCGAATTCGTACAGACACTAGAGACCAACCCCTCCAGGCCAAT 1140

Qy 1353 ACAGTGTAGTAAGTAATCATCATCAGCTAGAA 1382

Db 1141 ACAGTGTAGTAAGTAATCATCATCAGCTAGTA 1170

RESULT 11

US-08-387-707-15
; Sequence 15, Application US/08387707
; Patent No. 6265563
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/387,707
; FILING DATE: 10-SEP-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-08-387-707-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 4.1e-292;
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

Qy 9 GGCTATAGGACAGAGAGATCTCAGTCTCGGTCCGCTCCCTCCGCTGACCGCTCCTC 68

Db 52 GGATACAAGCAGAGAGAGATATCGAGCGCTCAG-ACGTTTCATTTCTGCTCCGCTCTTC 110

Qy 69 TCTGTCTCAGCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGGAAA 127

Db 111 TCTGGTTCCATAGGGCTTGCTTGTAAAGAACTGACGGAGCTTAGGGCAGCTGTGAGA 170

Qy 128 GGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACTCTCGCACAG 187

Db 171 GGAAGGCTGGGGCGCTGGAAACCGGAAACCTCTTGAGTGCTCTCAGTTACAGNCTACC 230

Qy 188 CGGTGCGCGCGCGCTGAGTACCATGACAGAGCGCTGCCCGCCAGCAACCGCAGCA 247

Db 231 GAGTCCGCGAGGAAGCATTCAGAAACCATGGACAGAGCGCGCGCCAGGGAACATCAGCGA 290

Qy 248 TTGCACATGATCCCTTGGCGTACTCAAGTTGCCCGCCAGCACCCAGCGCCCGGTTCCTGGGT 307

Db 291 CTGCTCGACCCCTTAGCTTCCTGCAAGTTGCTCCCCAGCA-----CCTGGCTCTGGCT 344

Qy 308 CAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCAACCACT 367

Db 345 CAACTTGTCCCACTTGTATGGAAACCACTCCGACCCATGCGGTCTTAAACCGAGCGGCT 404

Qy 368 GGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGGCCATCAC 427

Db 405 TGGCGGGAACGACAGCTGTGCCCTCAGACCGGAGCCCTTCCATGGTCAAGCCATCAC 464

Qy 428 GATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCTCGGTCTCAT 487

Db 465 CATCATGGCCCTCTATCTCTATCGTGTGTAGTGGGCTCTTTTGGAAACCTTCTCGGTCTCAT 524

Qy 488 GTATGTGATTGTGATACACCAAGATGAAGACTGCCACCACCAACATCTACATTTTCAACCT 547

Db 525 GTATGTGATTGTAAAGATATACCAAAATGAAGACTGCCACCACCAACATCTACATTTTCAACCT 584

Qy 548 TGCTCTGGCAGATGCTTATAGCCACCAAGTACCTTCCGCTCCAGAGTGTGAATTTACCTAAT 607

Db 585 TGCTCTGGCAGATGCTTATAGCCACTAGCAGCTGCTGCCCTTTTCCAGAGTGTAACTACCTGAT 644

Qy 608 GGGAAATGGCCATTTGGAAACCATCTTTTGCAGAGATAGTATCTCCATAGATTACTATAA 667

Db 645 GGGAACTGGCCCTTTGGAAACCATCTCTGCAAGATCGTGATCTCAATAGACTACTACAA 704

Qy 668 CATGTTCCACGACATATTACACCTCTGCACCATGAGTGTGATCGATACATTTGACGCTG 727

Db 705 CATGTTCCACGATATTCTTACCTCTGCACCATGAGTGTAGACCGCTTACATTTGCGCTG 764

Qy 728 CCACCTGTCAAGGCTTATAGATTTCGTAATCTCCCGAAATGCCAAAATTTATCAATGTCTG 787

Db 765 CCACCCGGTCAAGGCTTATAGATTTCGTAATCTCCCGAAATGCCAAAATTTATCAATGTCTG 824

Qy 788 CAACTGATCTCTCTTACGCAATTTGCTTCTGTATGTTGATGCTTACCAAAATA 847

Db 825 CAACTGATCTCTCTTCTGCCATTTGCTTCCCGGTAATGTTTATGGCAACCAAAATA 884

Qy 848 CAGCAAGTTTCCATAGATTGTACATACTTCTCATCCAACTGGTACTGGGAAA 907

Db 885 CAGCAGGGTCCATAGATTGCACTTCTCTCATCCACATGGTACTGGGAAA 944

Qy 908 CCTCGTGAAGATCTGTGTTTTTCATCTTTCGCTTCAATTTATGCGAGTGTCTCATTTACCGT 967

Db 945 CCTGCTCAAAATCTGTGCTTCTTCTGCGCTTCTCATCATGCGGCGCTCATCATCACTGT 1004

Qy 968 GTGCTATGGAATCTGTGCGCTCAAGAGTCCGATGCTCTCTGGCTCCAAAGA 1027

Db 1005 GTGTTATGGACTGTATGATCTTACAGCTCAAGAGTGTCCGATGCTGCGGCTCCAAAGA 1064

Qy 1028 AAAGGACAGGAATCTTCGAAGGATCACAGAGTGGTGTGCTGGTGGTGGTGTGTTTCTAT 1087

Db 1065 AAAGGACAGGAATCTTCGCGAGGATCACCCGATGGTGTGCTGGTGGTGGTGTGTTTCTAT 1124

Qy 1088 CGTCTGTGGAATCTCCATTTACATTTACGTCATCATTTAAAGCTTGGTTTAAATCCGAGA 1147

Db 1125 TGTCTGTGGAATCTCCATTTACATTTATGTCATCATCAAGCACTGATCAGATTCCAGA 1184

Qy 1148 AACTAGCTTCAGACTGTTTCTGGCACTTCTGCAATTTGCTTAGTGTACACAAACAGCTG 1207

Db 1185 AACCACTTTCAGACTGTTTCTGGCACTTCTGCAATTTGCTTAGTGTACACAAACAGCTG 1244

Qy 1208 CCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTTCAGAGATT 1267

Db 1245 CCTGAAACCCAGTCCCTTTATGCGTTTCTTGGATGAAACTTCAACGATGTTTTCAGAGATT 1304

Qy 1268 CTGTATCCCAACCTTCTCCAACTTTAGCAACCAAACTCCAATTCGATTCGATTCGTAAGAAC 1327

Db 1305 CTGCATCCCAACTTCTCTCCAACTTTAGCAACCAAACTCCAATTCGATTCGATTCGTAAGAAC 1364

Qy 1328 TAGAGACACCCCTTCCAGGCAATCAGTGGATGAGAACTTAATCATCAGCTAGAAAATCT 1387

Db 1365 TAGGGAAACACCCCTTCCAGGCTAATACAGTGGATCGAACTAAACCAACAGCTAGAAAATCT 1424

||||| 302 ATGTGTTAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTG 361
||||| 550 CTCTGGAGATGCTTAGCCACACAGTACCTCGCCCTTCAGAGTGTGAATTAACCTAATGG 609
||||| 362 CTCTGGCAGACGCTTAGCGACACAGTACACTGCGCTTTCAGAGTGTCAACTACCTGATGG 421
||||| 610 GAACATGGCCATTTGGAAACCATCTTTCGAAGATAGTGTCTCCATAGATTAATATAACA 669
||||| 422 GAACATGGCCCTTCGGAAACCATCTCTGCAAGATCGTGATCTCAATAGATTAATACACA 481
||||| 670 TGTTCACAGCATATTCACCCCTCTGCACCATGAGTGTGTGATCGATACATTTGCAGTCTGCC 729
||||| 482 TGTTCACAGCATATTCACCCCTCTGCACCATGAGCGTGGACCGCTACATTTGCTGTCTGCC 541
||||| 730 ACCCTGTCAAGCCCTTAGATTTCCGTAATCCGTAATCCCGAAATGCAAAATTAATATGCTGCA 789
||||| 542 ACCAGTCAAGCCCTGGATTTCCGTACCCCGGAAATGCAAAATCGTCAAGCTCTGCA 601
||||| 790 ACTGGATCTCTCTCAGCCATTTGCTTCTCTGTAATGTTTCATGGCTACAAACAAATACA 849
||||| 602 ACTGGATCTCTCTCTGCCATCGGCTCGCTGTAAATGTTTCATGGCAACCAACAAATACA 661
||||| 850 GGCAAGGTTCCATAGATTTGATCACTAACATTTCTCTCATCCAACTGGTACTGGGAAACC 909
||||| 662 GGCAAGGTTCCATAGATTTGATCACTAACATTTCTCTCATCCAACTGGTACTGGGAAACC 721
||||| 910 TCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATTAATGCGAGTGTCTCATCATTTACCGTGT 969
||||| 722 TGCTCAAAATCTGTGCTTTATCTCGCTTTTCATCTGCGGCTCTCATCATCATCTGTGT 781
||||| 970 GCTATGAGCTGATGATCTGCGCTCAAGAGTGTCCGATGCTCTGCGCTCCAAAGAAA 1029
||||| 782 GTTACGCGCTGATGATTTACGACTCAAGAGCGTTTCGATGCTATCGGGCTCCAAAGAAA 841
||||| 1030 AGCAGAGGATCTTCGAAGGATCACGAGATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1089
||||| 842 AGCAGAGGATCTGCGCAGGATCACCGGATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 901
||||| 1090 TCTGCTGGATCCCATTCATATTAGTCATCATTAATTAAGCTTGGTTACAAATCCCAAGAAA 1149
||||| 902 TCTGCTGGACCCCATCCACATCTAGCTCATCATCAAGCGCTGTACAGATTTCCAGAAA 961
||||| 1150 CTAGCTTCAGACTGTTTCTTGCACTCTTGCATCTGTAGTGTACAAACAGCTGCC 1209
||||| 962 CCATTTACAGACCGTTTCTGCGACTTTCGCAATGCTTGGGTATACAGACGCTGCC 1021
||||| 1210 TCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTTCAGAGATTTCT 1269
||||| 1022 TGAATCCAGTTCTTTACGCGCTTCTGGATGAAACTTCAAGCGATGCTTTCAGAGATTTCT 1081
||||| 1270 GTATCCCAAGCTTCTCAACATTTAGAGCAACAACTCCACTCGAATTCGTACAGAACACTA 1329
||||| 1082 GCATCCCAAGCTTCTCAACGATGAAACAGCAAACTCCACTCGAGTCCGTCAGAACACTA 1141
||||| 1330 GAGACCACTCCAGCGCAATACAGTGTAGTACTAATCATCAGCTAGAAAATCTCG 1389
||||| 1142 GGGAAATCCCTCCAGCGCTTAATACAGTGTGATCGAACTAACCCAGCTAGAAAATCTCG 1201
||||| 1390 AAGCAGAAATGCTCGGTTCGCTTAAACAGGCTCTCATGCAATTCGACCTTCCACCAAGCT 1449
||||| 1202 AGCAGAAATGCTTCAATTCGCTTAACTGGGTCTCACACCATCCAGACCTCGTAAAGCT 1261
||||| 1450 TAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAATTC 1509
||||| 1262 TAGAGGCGGCATCTAGTGAATCAGGTGTGCTGTGAGGCTGTGTGGAGGCTCTGGTTT 1321
||||| 1510 TCTAGGAAGTGCCTACTTTTAGGTTCATCAACTCTTCTCTCTGCGCACTCTGCTCT 1569
||||| 1322 CCTGAGAAA---CCATCTGATCTCTGCAATTCAAAGTCAATTCCTCTCTGCGCTACTTCTCT 1378
||||| 1570 GCACATTTAGAGGAGCAGCCAAAAGTAAAGTGGAGCATTTTGAAGGAAAGGAATATACACA 1629
|||||

Db 1379 GCACATGAGAGAT---GCTCAGACTGTATCAAGTACTCAGAAAGAGAGACTACCGGACA 1435
QY 1630 CCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGG-----ACCAAAACCCACTCG 1678
Db 1436 CTCCTGAATCCAGCTCATGTACAGAACCATCTGAAACACCCAGTGGACCAATGCTCTG 1495
QY 1679 TGGTATGTGAATTTGAAGTCATATAAAGGTGACCCCTTCTGTCTGTGAAGATTTT---ATT 1736
Db 1496 TGGTATGTGAATTTGATCATCATAGAGGTGACCCCTCTCTATGTAGAATTTTATTATT 1555
QY 1737 TCAAGCAATATTTATGACCTCAACAAAGAGA-ACCATCTTTTGTTAAGTTCACCGTAG 1795
Db 1556 TCAAGCAATATTTATGACCTCATCAAGAAAAATATGTCACTTGTATAATTCACGTAG 1615
QY 1796 TAAACATAAAGTAAATGCTACTCTGATCAAGCACCTTGAATGGAAGGTCCGAGCTTT 1855
Db 1616 TGATACATAAAGTAAATGCTACTCTGACCTCTGACCTCTGACCC-----AGTCACTTCTG 1665
QY 1856 TTTAGTGTGTTTTGCAAGGGAATGAATCCAATTTATTTTATAGACTTTTAACTTCAACTT 1915
Db 1666 TAGAGATTCAGTCTCTTTTGTGATGAATACATCATTTTCCAACCTTAAACCTTTCACCTT 1725
QY 1916 AAAATAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATGTTTA 1975
Db 1726 GAAGTTATGCTCTAGTTAAGACATCAGGGGACCTCCGTTTCTGTTTGTATGTTTGTG 1785
QY 1976 AAAAAATAACATCTCTTTTCATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAA 2035
Db 1786 AAGAAGAGGACATCTTCTCTAGCTGTGTGTTGAAATGAAAGGGATTGAAGCACA 1845
QY 2036 G 2036
Db 1846 G 1846

RESULT 14

US-08-889-108-1
; Sequence 1, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: YU, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid


```
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cdna)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 339..1235
; US-08-889-108-3

Query Match          50.8%; Score 1099; DB 3; Length 1618;
Best Local Similarity 83.3%; Pred. No. 1.7e-279;
Matches 1311; Conservative 0; Mismatches 250; Indels 12; Gaps 5;

QY 9 GGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGTCGGTCCCTCCGCTGAGCGCTCCTC 68
Db 11 GGCTACAAAGCAGAGGAGAAATATCAGACGGCTCAG-ACGTTCCCTTCTCGCTGCGCTCTTC 69

QY 69 TCTGTCTCAGCCAGGACTGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGGCGAA 127
Db 70 TCTGGTTCCACTAGGCTGTGTCATGTAAGAACTCAGCGAGCTAGGGCAGCTGTGAGA 129

QY 128 GGAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCTTCGCACAG 187
Db 130 GGAAGAGGCTGGGGCGCTGGAACCCGAAAGTCTGAGTGCTCTCAGTTACAGCCTAC-C 188

QY 188 CGGTGCCCGCCGCGCTGAGTACCATGAGCAGAGGGCTGCCCCACGACGCGAGCAA 247
Db 189 TAGTCCGACAGCGCCCTTACGACCCATGGAACAGCAGCAGCGCCCGGGAACACCGCGA 248

QY 248 TTCACCTGATGCTTGGCGTACTCAAGTTGCCCGCCCGCAGACCCAGCGCCCGTTCCTGGGT 307
Db 249 CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCGACGA-----CCTGGCTCTTGGCT 302

QY 308 CAACCTTGTCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACCGCACCAACCT 367
Db 303 CAACCTTGTCCACGTTGATGGCAACCAAGTCCGATCCATGCGGTCTGAACCGCACCGGGCT 362

QY 368 GGGCGGGAGAGACAGCTGTGCGCTCGGACCGGAGTCCCTCCATGATCAGCGCCATCAC 427
Db 363 TGGCGGGAAACGACAGCGCTGTGCGCTCAGACCGGACGCCCTTCCATGGTCCAGGCCATTAC 422

QY 428 GATCATGGCCCTCTACTCCATCGTGTGCGGTGGGCTCTCTCGGAAACTTCTCTGTGTCTAT 487
Db 423 CATCATGGCCCTCTACTCTATGTTGTGTAGTGGGCTCTTTCGGAAACTTCTCTGTGTCTAT 482

QY 488 GTATGTGATTGTGAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547
Db 483 GTATGTGATTGTAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 542

QY 548 TGCTCTGGCAGATGCTTAGCCACACAGTACCCCTGCCCTTCCAGAGTGTGAATTAACCTAAT 607
Db 543 TGCTCTGGCAGAGCGCCCTTAGCGACCAAGTACACTGCCCTTTTCAGAGTGTCAACTACCTGAT 602

QY 608 GGGAAACATGGCCATTTTGGAAACCATCTTTTCAGAGTAGTGTATCTCCATAGATTACTATAA 667
Db 603 GGGAAACATGGCCCTTTCGAAACCATCTCTCTGAAAGATCGTGATCTCAATAGATTACTACAA 662

QY 668 CATGTTTCCAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTCAGTCTG 727
Db 663 CATGTTTCCAGCATATTCACCCCTCTGCACCATGAGCGTGGACCGGTACATTCGTGCTG 722
```

```
QY 728 CCACCCCTGTCAAGGCTTAGATTTTCGTACTCCCGAAATGCCAAAATTTATCAATGTCTG 787
Db 723 CCACCCAGTCAAAGCCCTGGATTTTCGTACCCCGAAATGCCAAAATCGTCAACGTCTG 782

QY 788 CAACTGGATCCTCTCTTTCAGCCATTTGCTTCTCTGTAATGTTTCATGGCTACCAAAAAATA 847
Db 783 CAACTGGATCCTCTCTTTCGCCATCGTCTGCTGTAATGTTTCATGGCAACCAAAAAATA 842

QY 848 CAGGCAAGTTTCATAGATTGTACACTAACTTCTCATCCAACTGTGTACTGGGAAAA 907
Db 843 CAGGCAAGGTTTCATAGATTGTACACTAACTTCTCATCCAACTGTGTACTGGGAGAA 902

QY 908 CTTCTGTAAGATCTGTGTTTTCATCTTGGCCTTTCATTATGCCAGTCTCATCATTAACCGT 967
Db 903 CTTCTCAAAATCTGTGCTTTCATCTTGGCTTTCATCATGCCGATCTCATCATCTACTGT 962

QY 968 GTGCTATGGACTGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGTCTCCAAAGA 1027
Db 963 GTGTTACGGCCTGATGATCTTACGACTCAAGAGCGTTCGATGCTATCGGGCTCCAAAGA 1022

QY 1028 AAAGACAGGAATCTTCGAAGGATCACAGGATGTTGCTGGTGGTGGTGTGCTGTTCAT 1087
Db 1023 AAAGACAGGAATCTTCGCGAGGATCACCGGATGTTGCTGGTGGTGGTGTGATTTAT 1082

QY 1088 CGTCTGCTGACTCCCATTTACATTTACGTTCATTAAGCCTTGGTTACAATCCAGA 1147
Db 1083 CGTCTGCTGACCCCATCCCATCTACGTTCATTAAGCGCTGATCAAGTTCAGA 1142

QY 1148 AACTAGTTCAGACTGTTTCTTGGCATTCTGCAATGCTCTAGGTTTACAAACAGCTG 1207
Db 1143 AACCACATTTACAGACCGTTTCTTGGCATTCTGCAATGCTTTCGAGTTCACGAAACAGCTG 1202

QY 1208 CTTCAACCCAGTCTTATGCAATTTCTGATGAAAACCTTCAACGATGCTTCAGAGATT 1267
Db 1203 CTTGAATCCAGTCTTCTTACGCTTCTGATGAAAACCTTCAAGCGATGCTTTCAGAGATT 1262

QY 1268 CTGTATCCCAACCTCTTCCAAACATTTGAGCAACAAAACCTCCACTCGAATTCGTGAGAAC 1327
Db 1263 CTGATCCCAACCTCTGTCACGATCGAACGCAAAACTCCATCTCGAGTCCGTTCAGAACAC 1322

QY 1328 TAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGCTAGAAAATCT 1387
Db 1323 TAGGGAACATCCCTCCACGGCTAATACAGTGGATCGAACTAACCCACGCTAGAAAATCT 1382

QY 1388 GGAAGACAGAACTGTCTCGTTCGCTTAAAGAGGTCATGCGCATTCGAGCTTCACCAAG 1447
Db 1383 GGAGGCAGAACTGTCTTCAATTTGCCCTTAACTGGGTCTCACACCATCCAGACCCCTCGCTAAG 1442

QY 1448 CTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGAGGCTCTAAT 1507
Db 1443 CTTAGAGCGGCCATCTACGTGGAATCAGGTTGCTGTGAGGTTGTGTGGAGGCTCTGTT 1502

QY 1508 TCTTAGGAAAGTGGCTTACTTTTAGGTTCATCCAAACCTCTTCTCTCTGCGCCACTCTGCT 1567
Db 1503 TTCTTGAGAAA---CCATCTGATCCTGCAATTCAGAGTCAATTCCTCTCTGGTACTTCACT 1559

QY 1568 CTGCACATTAGAG 1580
Db 1560 CTGCACATGAGAG 1572
```

Search completed: January 8, 2006, 20:21:04
Job time : 370.698 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:36:32 ; Search time 1712.52 Seconds
(without alignments)
10439.788 Million cell updates/sec

Title: US-09-883-839-1-C279

Perfect score: 2162

Sequence: 1 ggaattccggtctataggcag.....gtggtttgtctcgggaattc 2162

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA Main:*

1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2160	99.9	2162	3	US-09-883-839-3
2	2158.4	99.8	2162	3	US-09-883-839-1
3	2158.4	99.8	2162	5	US-10-225-567A-185
4	2158.4	99.8	2162	6	US-10-305-720-1379
5	2158.4	99.8	2162	9	US-10-500-050-1
6	2156.8	99.8	2162	3	US-09-883-839-5
7	2156.8	99.8	2162	3	US-09-883-839-7
8	2156.8	99.8	2162	3	US-09-883-839-8
9	2145.4	99.2	2165	3	US-09-883-839-9
10	2108.8	97.5	2149	5	US-10-080-917-12
11	2097.8	97.0	2279	8	US-10-477-714-33
12	1351.8	62.5	1473	5	US-10-080-917-13
13	1343.6	62.1	1431	5	US-10-080-917-6
14	1198.2	55.4	1203	3	US-09-826-509-544
15	1198.2	55.4	1203	8	US-10-925-095-546
16	1197	55.4	1388	5	US-10-185-083-26
17	1195.6	55.3	1464	5	US-10-185-083-25
18	1177.4	54.5	2229	3	US-09-214-904-1
19	1163.6	53.8	1182	3	US-09-826-509-546
20	1163.6	53.8	1182	8	US-10-925-095-546
21	1157.6	53.5	1245	5	US-10-080-917-8
22	1155.8	53.5	1176	3	US-09-935-061-11
23	1155.8	53.5	1176	7	US-10-692-071-11

24 1147 53.1 1981 3 US-09-823-114-15 Sequence 15, Appl
25 1147 53.1 1981 6 US-10-290-748-15 Sequence 15, Appl
26 1127 52.1 1176 3 US-09-935-061-13 Sequence 13, Appl
27 1127 52.1 1176 7 US-10-692-071-13 Sequence 13, Appl
28 1124.8 52.0 1197 3 US-09-935-061-15 Sequence 15, Appl
29 1124.8 52.0 1197 7 US-10-692-071-15 Sequence 15, Appl
30 1103.6 51.0 1239 5 US-10-080-917-10 Sequence 10, Appl
31 1099 50.8 1618 3 US-09-841-720-1 Sequence 1, Appl
32 1099 50.8 1618 3 US-09-841-720-3 Sequence 3, Appl
33 1071 49.5 1610 5 US-09-761-962-16 Sequence 16, Appl
34 1071 49.5 1610 5 US-10-283-300-16 Sequence 16, Appl
35 1020.8 47.2 1614 5 US-10-185-083-16 Sequence 17, Appl
36 992.8 45.9 1569 5 US-10-185-083-17 Sequence 15, Appl
37 990.6 45.8 1440 5 US-10-185-083-15 Sequence 24, Appl
38 919.4 42.5 1695 5 US-10-185-083-24 Sequence 4, Appl
39 916.4 42.4 1542 3 US-09-761-962-4 Sequence 4, Appl
40 916.4 42.4 1542 5 US-10-283-300-4 Sequence 11, Appl
41 915 42.3 1365 3 US-09-761-962-11 Sequence 11, Appl
42 915 42.3 1365 5 US-10-283-300-11 Sequence 11, Appl
43 915 42.3 1373 5 US-10-185-083-51 Sequence 51, Appl
44 915 42.3 1423 3 US-09-761-962-1 Sequence 1, Appl
45 915 42.3 1423 5 US-10-283-300-1 Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-883-839-3

; Sequence 3, Application US/09883839

; Publication No. US20040209250A1

; GENERAL INFORMATION:

; APPLICANT: Kreek, Mary Jeanne

; APPLICANT: LaForge, Karl Steven

; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,

; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of

; TITLE OF INVENTION: Treatment Based Thereon

; FILE REFERENCE: 600-1-266N

; CURRENT APPLICATION NUMBER: US/09/883,839

; CURRENT FILING DATE: 2001-06-18

; PRIOR FILING DATE: 2000-06-16

; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: Fast-Seq for Windows Version 4.0

; SEQ ID NO 3

; LENGTH: 2162

; TYPE: DNA

; ORGANISM: Homo sapiens

; NAME/KEY: misc feature

; LOCATION: 2063_2091

; OTHER INFORMATION: n = A,T,C or G

; US-09-883-839-3

Query Match 99.9%; Score 2160; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGCAGAGGAGATGTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 60
Db 1 GGAATTCGGCTATAGCAGAGGAGATGTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 60
Qy 61 CGCTCCTCTGTCTCAGCCAGGAGTGTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTGTCTCAGCCAGGAGTGTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Qy 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTTGCTACTT 180
Db 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTTGCTACTT 180
Qy 181 CGCAACAGCGGTGCGCCCGCCGCTCAGTACCATGGACAGCGCTGCCCCCAGCAACG 240
Db 181 CGCAACAGCGGTGCGCCCGCCGCTCAGTACCATGGACAGCGCTGCCCCCAGCAACG 240

QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCCCCCGAGACCCAGGCCCGGTT 300
DB |||||
DB 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCCCCCGAGACCCAGGCCCGGTT 300
QY 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGGGTCGAAACCGCA 360
DB |||||
DB 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGGGTCGAAACCGCA 360
QY 361 CCAACCTGGGGGGGAGAGACAGCCTGTGCCCTCCGACCCGAGTCCCTCCATGATCACGG 420
DB |||||
DB 361 CCAACCTGGGGGGGAGAGACAGCCTGTGCCCTCCGACCCGAGTCCCTCCATGATCACGG 420
QY 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAAACTTTC 480
DB |||||
DB 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAAACTTTC 480
QY 481 TGGTCATGTATGTGATGTGCAGATACACCAAGATGAAGACTGCCACCAATCTACATTT 540
DB |||||
DB 481 TGGTCATGTATGTGATGTGCAGATACACCAAGATGAAGACTGCCACCAATCTACATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTTCCCTTCCAGAGTGTGAAT 600
DB |||||
DB 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTTCCCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGAAACATGSCCAATTTGGAAACCATCTCTTGCAGATAGTGATCTCCATAGATT 660
DB |||||
DB 601 ACCTAATGGGAAACATGSCCAATTTGGAAACCATCTCTTGCAGATAGTGATCTCCATAGATT 660
QY 661 ACTATAACATGTTTACCAGATATTCACCCCTCTGCACCATGAGTGTGTGATCGATACATTG 720
DB |||||
DB 661 ACTATAACATGTTTACCAGATATTCACCCCTCTGCACCATGAGTGTGTGATCGATACATTG 720
QY 721 CAGTCTGCCACCTGTCCAGGCCCTTAGATTTCCGTACTTCCCGAAATGCCAAATTTATCA 780
DB |||||
DB 721 CAGTCTGCCACCTGTCCAGGCCCTTAGATTTCCGTACTTCCCGAAATGCCAAATTTATCA 780
QY 781 ATGCTGCACTGGATCTCTCTTCCAGCATTTGGTCTTCTCTGTAAGTTTCATGGCTACAA 840
DB |||||
DB 781 ATGCTGCACTGGATCTCTCTTCCAGCATTTGGTCTTCTCTGTAAGTTTCATGGCTACAA 840
QY 841 CAAATAACAGGCAAGGTTCCATAGATTTGTAACATACTCTCATCCAAACCTGGTACT 900
DB |||||
DB 841 CAAATAACAGGCAAGGTTCCATAGATTTGTAACATACTCTCATCCAAACCTGGTACT 900
QY 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTCATATGCCAGTCTCATCA 960
DB |||||
DB 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTCATATGCCAGTCTCATCA 960
QY 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
DB |||||
DB 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTGGCTG 1080
DB |||||
DB 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTGGCTG 1080
QY 1081 TGTTTCATCTGTCTGTGACTCTCCATTCACATTTACGTCATCATTAAGCCTTGGTTACAA 1140
DB |||||
DB 1081 TGTTTCATCTGTCTGTGACTCTCCATTCACATTTACGTCATCATTAAGCCTTGGTTACAA 1140
QY 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCATTTGCTAGGTTACAA 1200
DB |||||
DB 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCATTTGCTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTATGCAATTTCTGATGAAACTTCAACAGATGTTCA 1260
DB |||||
DB 1201 ACAGCTGCCTCAACCCAGTCTTATGCAATTTCTGATGAAACTTCAACAGATGTTCA 1260
QY 1261 GAGAGTTCTGTATCCCAACTCTTCCAAACATTCAGCAACAAACTCCACTCGAATTCGTC 1320
DB |||||
DB 1261 GAGAGTTCTGTATCCCAACTCTTCCAAACATTCAGCAACAAACTCCACTCGAATTCGTC 1320

QY 1321 AGAACACTAGAGACCACTCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
DB |||||
DB 1321 AGAACACTAGAGACCACTCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAACAGAACTGCTCCGTTGGCCCTTAACAGGCTCTCATGCCATTTCCGACCTT 1440
DB |||||
DB 1381 AAAATCTGGAACAGAACTGCTCCGTTGGCCCTTAACAGGCTCTCATGCCATTTCCGACCTT 1440
QY 1441 CACCAAGCTTTAGAACCCATGTATGTGGAAGAGAGTTGCTTCAAGAAATGTGTAGGAG 1500
DB |||||
DB 1441 CACCAAGCTTTAGAACCCATGTATGTGGAAGAGAGTTGCTTCAAGAAATGTGTAGGAG 1500
QY 1501 CTCTAATCTCTTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTCTCTCTGCGCCA 1560
DB |||||
DB 1501 CTCTAATCTCTTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTCTCTCTGCGCCA 1560
QY 1561 CTCTGCTGTGCACATTTAGAGGACAGCCAAAGTAGTGGAGCATTTTGGAAAGAAAGGAA 1620
DB |||||
DB 1561 CTCTGCTGTGCACATTTAGAGGACAGCCAAAGTAGTGGAGCATTTTGGAAAGAAAGGAA 1620
QY 1621 TATACACACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
DB |||||
DB 1621 TATACACACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
QY 1681 GTATGTGAATTCGAAGTCATATAAAGAGTGACCTTCTGTCTGTAAAGATTTTATTTCAA 1740
DB |||||
DB 1681 GTATGTGAATTCGAAGTCATATAAAGAGTGACCTTCTGTCTGTAAAGATTTTATTTCAA 1740
QY 1741 GCAATAATTTATGACTCCTCAACAAAGAAAGAAACCATCTTTTGTAAAGTTTCCAGTAGTAA 1800
DB |||||
DB 1741 GCAATAATTTATGACTCCTCAACAAAGAAAGAAACCATCTTTTGTAAAGTTTCCAGTAGTAA 1800
QY 1801 CATTAAGTAATGCTTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTTAG 1860
DB |||||
DB 1801 CATTAAGTAATGCTTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTTAG 1860
QY 1861 TGTCTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTTAAAT 1920
DB |||||
DB 1861 TGTCTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTTAAAT 1920
QY 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTTGTGTTTGTATGTTTAAAAA 1980
DB |||||
DB 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTTGTGTTTGTATGTTTAAAAA 1980
QY 1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAGGAGAGATTAGCATGAAGGTAA 2040
DB |||||
DB 1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAGGAGAGATTAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCATGTCTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAAAATAC 2100
DB |||||
DB 2041 TCTGAAACACAGTCATGTCTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAAAATAC 2100
QY 2101 CCAAGAGTCATCATGGGGATTTTTCATTTAGGCTTTAGGCTTTAGTGGTTTCTCTGGAAT 2160
DB |||||
DB 2101 CCAAGAGTCATCATGGGGATTTTTCATTTAGGCTTTAGTGGTTTCTCTGGAAT 2160
QY 2161 TC 2162
DB |||
DB 2161 TC 2162

RESULT 2

US-09-883-839-1
; Sequence 1, Application US/09883839
; Publication NO. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839

```
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063, 2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-1

Query Match      99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db |||||||
Qy 1 GGAATTCGGCTATAGGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db |||||||

Qy 61 CGTCTCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGAGCTGTGGCAGC 120
Db |||||||
Qy 61 CGTCTCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGAGCTGTGGCAGC 120
Db |||||||

Qy 121 GGGAAAGAGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGTGCTCTCTGGCTACCT 180
Db |||||||
Qy 121 GGGAAAGAGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGTGCTCTCTGGCTACCT 180
Db |||||||

Qy 181 CGCACAGGGTGGCCCGCGCGCTGAGTACCAATGACAGAGCGGTGCCCAACGAAAG 240
Db |||||||
Qy 181 CGCACAGGGTGGCCCGCGCGCTGAGTACCAATGACAGAGCGGTGCCCAACGAAAG 240
Db |||||||

Qy 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCAGCCCGGTT 300
Db |||||||
Qy 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCAGCCCGGTT 300
Db |||||||

Qy 301 CCTGGGTCAATTTGCTCCCACTTAGATGGCAACCTGTGCGACCCGATGGGTCCGAAACGCA 360
Db |||||||
Qy 301 CCTGGGTCAATTTGCTCCCACTTAGATGGCAACCTGTGCGACCCGATGGGTCCGAAACGCA 360
Db |||||||

Qy 361 CCACCTGGGGGAGAGAGAGCTGTGCTCCGACCGGCGAGTCCCTCATGATACGG 420
Db |||||||
Qy 361 CCACCTGGGGGAGAGAGAGCTGTGCTCCGACCGGCGAGTCCCTCATGATACGG 420
Db |||||||

Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGCTGGTGGGCTCTTCGGAACTTCC 480
Db |||||||
Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGCTGGTGGGCTCTTCGGAACTTCC 480
Db |||||||

Qy 481 TGGTCATGTATGTGATGTGATGATACCAAGATGAAAGATGCGCAACCAATCTACATTT 540
Db |||||||
Qy 481 TGGTCATGTATGTGATGTGATGATACCAAGATGAAAGATGCGCAACCAATCTACATTT 540
Db |||||||

Qy 541 TCACCTTGTCTGGCAGATGCTTAGCCACGATGCTTCCGCTCCGCTCCAGAGTGAAT 600
Db |||||||
Qy 541 TCACCTTGTCTGGCAGATGCTTAGCCACGATGCTTCCGCTCCGCTCCAGAGTGAAT 600
Db |||||||

Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTATCTCCATAGATT 660
Db |||||||
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTATCTCCATAGATT 660
Db |||||||

Qy 661 ACTATAACATGTTACCAAGCATATTCACCTCTGCAACATGAGTGTGATGATGATGATG 720
Db |||||||
Qy 661 ACTATAACATGTTACCAAGCATATTCACCTCTGCAACATGAGTGTGATGATGATGATG 720
Db |||||||

Qy 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGCTACTCCCGGAAATGCCAAATATCA 780
Db |||||||
Qy 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGCTACTCCCGGAAATGCCAAATATCA 780
Db |||||||

Qy 781 ATGCTGCACTGGATCTCTCTTCAGCCATTTGCTTCTCTGTAATGTTTCATGGCTACAA 840
Db |||||||
```

```
Db 781 ATGCTGCACTGGATCTCTCTTCAGCCATTTGGTCTTCTCTGTAATGTTTCATGGCTACAA 840
Qy 841 CAAAATACAGGCAAGGTTCATAGATTGTACATAAATCTCTCATCTCAATCCAACTGGTACT 900
Db |||||||
Qy 841 CAAAATACAGGCAAGGTTCATAGATTGTACATAAATCTCTCATCTCAATCCAACTGGTACT 900
Db |||||||

Qy 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATATGCGCAGTCTCATCA 960
Db |||||||
Qy 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATATGCGCAGTCTCATCA 960
Db |||||||

Qy 961 TTACCGTGTCTATGACATGATGATCTTGGCTTCAAGAGTGTCCGATCTCTCTGGCT 1020
Db |||||||
Qy 961 TTACCGTGTCTATGACATGATGATCTTGGCTTCAAGAGTGTCCGATCTCTCTGGCT 1020
Db |||||||

Qy 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGTGGCTG 1080
Db |||||||
Qy 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGTGGCTG 1080
Db |||||||

Qy 1081 TGTTCAATGCTGTCTGGACTCTCCCATTCACATTTACGTTCATTAAGCCCTTGGTTACAA 1140
Db |||||||
Qy 1081 TGTTCAATGCTGTCTGGACTCTCCCATTCACATTTACGTTCATTAAGCCCTTGGTTACAA 1140
Db |||||||

Qy 1141 TCCAGAAACTAGTTCAGACTGTTCCTGGCACTTCTGCAATTCCTAGGTTACAA 1200
Db |||||||
Qy 1141 TCCAGAAACTAGTTCAGACTGTTCCTGGCACTTCTGCAATTCCTAGGTTACAA 1200
Db |||||||

Qy 1201 ACAGCTGCTCAACCCAGTCTTTTATGCAATTCCTGGATGAAATCTTCAAAACGATGCTCA 1260
Db |||||||
Qy 1201 ACAGCTGCTCAACCCAGTCTTTTATGCAATTCCTGGATGAAATCTTCAAAACGATGCTCA 1260
Db |||||||

Qy 1261 GAGAGTTCTGTATTCCTCAACCTCTTCCAAATTCAGCAACAAATTCACCTCGAATTCGTC 1320
Db |||||||
Qy 1261 GAGAGTTCTGTATTCCTCAACCTCTTCCAAATTCAGCAACAAATTCACCTCGAATTCGTC 1320
Db |||||||

Qy 1321 AGAACAATGAGACACCCCTCCAGCCCAATACAGTGGATAGCACTTAATCATCAGCTAG 1380
Db |||||||
Qy 1321 AGAACAATGAGACACCCCTCCAGCCCAATACAGTGGATAGCACTTAATCATCAGCTAG 1380
Db |||||||

Qy 1381 AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
Db |||||||
Qy 1381 AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
Db |||||||

Qy 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTCCTTCAAGATGTGTAGGAGG 1500
Db |||||||
Qy 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTCCTTCAAGATGTGTAGGAGG 1500
Db |||||||

Qy 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTAGTCTCAACCTCTTCTCTCTCGGCA 1560
Db |||||||
Qy 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTAGTCTCAACCTCTTCTCTCTCGGCA 1560
Db |||||||

Qy 1561 CTCTGCTCTGCACATTAGAGGAGCAGCAAAAGTAAGTGGAGCATTTGGAGGAAAGGAA 1620
Db |||||||
Qy 1561 CTCTGCTCTGCACATTAGAGGAGCAGCAAAAGTAAGTGGAGCATTTGGAGGAAAGGAA 1620
Db |||||||

Qy 1621 TATACACACCGGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Db |||||||
Qy 1621 TATACACACCGGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Db |||||||

Qy 1681 GTATGTGAATGAAGTCAATATAAGGTCACCTTCTGTCTGTGAAGTTTATTTTCAA 1740
Db |||||||
Qy 1681 GTATGTGAATGAAGTCAATATAAGGTCACCTTCTGTCTGTGAAGTTTATTTTCAA 1740
Db |||||||

Qy 1741 GCAAAATTTATGACCTCAACAAAGAGAACCATCTTTTGTGAAGTTTCAACGTAAGTAA 1800
Db |||||||
Qy 1741 GCAAAATTTATGACCTCAACAAAGAGAACCATCTTTTGTGAAGTTTCAACGTAAGTAA 1800
Db |||||||

Qy 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTATAG 1860
Db |||||||
Qy 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTATAG 1860
Db |||||||

Qy 1861 TGTTTTTGCAGGGAATGAATTCATTTCTATTTTATAGCTTTTAACTTCAACTTAAAT 1920
Db |||||||
Qy 1861 TGTTTTTGCAGGGAATGAATTCATTTCTATTTTATAGCTTTTAACTTCAACTTAAAT 1920
Db |||||||
```

```
QY 1921 TAGCATCTGGCTAAGGATCATTTTACCTCCATTTCTTGGTTTCTATTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGATCATTTTACCTCCATTTCTTGGTTTCTATTGTTTAAAAA 1980
QY 1981 AATAAACATCTCTTTTCATCTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
QY 2041 TCTGAAACACAGTCATGTGTGCANCTGTAGAAAGGTTGATTCTCATGCATNCNAAATACCT 2100
Db 2041 TCTGAAACACAGTCATGTGTGCANCTGTAGAAAGGTTGATTCTCATGCATNCNAAATACCT 2100
QY 2101 CCAAGAGTCATCATGGGGATTTTCATCTTTAGGCTTTACGTGGTTTGTTCCTGGAAT 2160
Db 2101 CCAAGAGTCATCATGGGGATTTTCATCTTTAGGCTTTACGTGGTTTGTTCCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 3
US-10-225-567A-185
; Sequence 185, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: unknown nucleotide
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: unknown nucleotide
; US-10-225-567A-185

Query Match 99.8%; Score 2158.4; DB 5; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGAATTCGGCTATAGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTGTCTAGCCAGAGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCTCTCTGTCTAGCCAGAGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC 120
QY 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT 180
Db 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT 180
QY 181 CGCACAGCGGTGCGCGCCGCGCTCAGTACCATGGAACAGCAGCGCTGCGCCCAAGAACG 240
Db 181 CGCACAGCGGTGCGCGCCGCGCTCAGTACCATGGAACAGCAGCGCTGCGCCCAAGAACG 240
```

Db 1321 AGAACCTAGAGACCACCCCTCCAGGCGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCGGAAGAGAACTGCTCCGTTGGCCCTAACAGGGTCTCATGCCATTCCGACCTT 1440
Db 1381 AAAATCGGAAGAGAACTGCTCCGTTGGCCCTAACAGGGTCTCATGCCATTCCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCACCACATGATGTGGAAGCAGGTTCCTCAAGAAATGTGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAAGCACCACATGATGTGGAAGCAGGTTCCTCAAGAAATGTGTAGGAGG 1500
Qy 1501 CTCTAAATCTCTAGAAAGTCCCTACTTTTAGGTTCATCAACCTCTTTCTCTCTGCGCCA 1560
Db 1501 CTCTAAATCTCTAGAAAGTCCCTACTTTTAGGTTCATCAACCTCTTTCTCTCTGCGCCA 1560
Qy 1561 CTCTGCTCTGCACATTAAGAGGACAGCAAAAGTAAGTGAAGCAATTTGGAAGGAAGGAA 1620
Db 1561 CTCTGCTCTGCACATTAAGAGGACAGCAAAAGTAAGTGAAGCAATTTGGAAGGAAGGAA 1620
Qy 1621 TATACCAACCGGAGGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
Db 1621 TATACCAACCGGAGGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
Qy 1681 GTATGTGAATTTGAAGTCAATCAAAAGGTGACCCCTTCTGTCTGTAAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTCAATCAAAAGGTGACCCCTTCTGTCTGTAAGATTTTATTTCAA 1740
Qy 1741 GCAAAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTACCGTAGTAACA 1800
Db 1741 GCAAAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTACCGTAGTAACA 1800
Qy 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGAAGTCCGAGTCTTTTATG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGAAGTCCGAGTCTTTTATG 1860
Qy 1861 TGTTTTTGCAGGGAATGAATFCAATTTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTTGCAGGGAATGAATFCAATTTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGATCAATTTTACCTCCATTTCTGGTTTGTATGTTTAAATAA 1980
Db 1921 TAGCATCTGGCTAAGGATCAATTTTACCTCCATTTCTGGTTTGTATGTTTAAATAA 1980
Qy 1981 AATAACATCTTTTATCATCTAGCTCCATTAATGCAAGGAGAGATTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTTTTATCATCTAGCTCCATTAATGCAAGGAGAGATTAGCATGAAGGTAA 2040
Qy 2041 TCTGAACACACAGTCAATGTCTCANCTGTAGAAAGGTTCATTTCTCATGCACATCAATCTT 2100
Db 2041 TCTGAACACACAGTCAATGTCTCANCTGTAGAAAGGTTCATTTCTCATGCACATCAATCTT 2100
Qy 2101 CCAAGAGTCAATCATGAGGGGATTTTTCATTTAGGCTTTTCAGTGGTTTGTCTCGGAAT 2160
Db 2101 CCAAGAGTCAATCATGAGGGGATTTTTCATTTAGGCTTTTCAGTGGTTTGTCTCGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 4
US-10-305-720-1379
; Sequence 1379, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; PRIOR FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490

; SOFTWARE: PERL Program
; SEQ ID NO 1379
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 9452072
; NAME/KEY: unsure
; LOCATION: (1) ... (2162)
; OTHER INFORMATION: a, t, c, g, or other
; US-10-305-720-1379

Query Match 99.8%; Score 2158.4; DB 6; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAAGAGAAATGTCAGATGCTCAGTCCGTCCCTCCGCTCGA 60
Db 1 GGAATTCGGCTATAGGCAAGAGAAATGTCAGATGCTCAGTCCGTCCCTCCGCTCGA 60
Qy 61 CGCTCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGAGCTGTGGCAGC 120
Db 61 CGCTCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGAGCTGTGGCAGC 120
Qy 121 GCGAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCTGGCTACCT 180
Db 121 GCGAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCTGGCTACCT 180
Qy 181 CGCAGCGGTGCGCGCGGCGTCAGTACCATGGAACAGCAGCGCTGCCCCCAGAACG 240
Db 181 CGCAGCGGTGCGCGCGGCGTCAGTACCATGGAACAGCAGCGCTGCCCCCAGAACG 240
Qy 241 CAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCAGCAGCAGCGCTCCGCTT 300
Db 241 CAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCAGCAGCAGCGCTCCGCTT 300
Qy 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCGGAACCGCA 360
Db 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCGGAACCGCA 360
Qy 361 CCAACCTGGCGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAACCTGGCGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGATCATGGCGCTCTACTCCATCGTGGTGGGGCTCTTCGGAACCTTC 480
Db 421 CCATCAGATCATGGCGCTCTACTCCATCGTGGTGGGGCTCTTCGGAACCTTC 480
Qy 481 TGGTCAATGATGATTTGTCAGATACACCAAGATGAAGACTGCCCAACATCTACATTT 540
Db 481 TGGTCAATGATGATTTGTCAGATACACCAAGATGAAGACTGCCCAACATCTACATTT 540
Qy 541 TCAACCTTGTCTGGCAGATGCTTACCCACAGTACCTTCCATCGCTTCCAGAGTGAATT 600
Db 541 TCAACCTTGTCTGGCAGATGCTTACCCACAGTACCTTCCATCGCTTCCAGAGTGAATT 600
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTCTCCATAGATT 660
Qy 661 ACTATAACATGTTTACCAGCATATTACCTCTGACCATGAGTGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTACCAGCATATTACCTCTGACCATGAGTGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTATGATTTCCGTACTCCCGAAATGCGAAATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTATGATTTCCGTACTCCCGAAATGCGAAATATCA 780
Qy 781 ATGTCTGCAACATGATCTCTCTTTCAGCCATTTGCTCTCTGTAATGTTTATGCTACAA 840
Db 781 ATGTCTGCAACATGATCTCTCTTTCAGCCATTTGCTCTCTGTAATGTTTATGCTACAA 840

```
QY 841 CAAAATACAGGAAGGTTCCATAGATTGTACACTACATTTCTCTCATCTCCAACTCGTACT 900
Db 841 CAAAATACAGGAAGGTTCCATAGATTGTACACTAAATTCCTCTCACTCAACTGGTACT 900
QY 901 GGGAAAACCTCGTGAAGACTCTGTGTTTTCATCTTCGCCCTTCAATATGCGCAGTGCTCATCA 960
Db 901 GGGAAAACCTCGTGAAGACTCTGTGTTTTCATCTTCGCCCTTCAATATGCGCAGTGCTCATCA 960
QY 961 TTACCGTGTGTATGACTGATGATCTTGGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCT 1020
Db 961 TTACCGTGTGTATGACTGATGATCTTGGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
QY 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTATCATTTAAAGCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTATCATTTAAAGCCTTGGTTACAA 1140
QY 1141 TCCAGAAACTAGTTCAGACTGTTTTCTTGGCACTTCTGCAATGCTCTAGTTACAAA 1200
Db 1141 TCCAGAAACTAGTTCAGACTGTTTTCTTGGCACTTCTGCAATGCTCTAGTTACAAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAACCTTCAACAGATGTTCA 1260
Db 1201 ACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAACCTTCAACAGATGTTCA 1260
QY 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGAAGCAACAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGAAGCAACAACTCCACTCGAATTCGTC 1320
QY 1321 AGAACTAGAGACCAACCCCTCCACGGCCAAATACAGTGAGTAGAACTAATCATCACTAG 1380
Db 1321 AGAACTAGAGACCAACCCCTCCACGGCCAAATACAGTGAGTAGAACTAATCATCACTAG 1380
QY 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTCGCCCTAAACAGGGTCTCATGCCATCCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTCGCCCTAAACAGGGTCTCATGCCATCCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATATGTGTGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATATGTGTGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
QY 1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGTGTCATCCAACTCTTCTCTGGCCA 1560
Db 1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGTGTCATCCAACTCTTCTCTGGCCA 1560
QY 1561 CTCTGCTCTGCATATTAGAGGGACGCCAAAGTAAGTGGAGCATTTGGAGAAAGGAA 1620
Db 1561 CTCTGCTCTGCATATTAGAGGGACGCCAAAGTAAGTGGAGCATTTGGAGAAAGGAA 1620
QY 1621 TATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCACTCGT 1680
Db 1621 TATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCACTCGT 1680
QY 1681 GTATGTGAATTGAAGTCATCATAAAAGGTGACCCCTTCTGTCTGTGTAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATTGAAGTCATCATAAAAGGTGACCCCTTCTGTCTGTGTAGATTTTATTTCAA 1740
QY 1741 GCAAAATTTTATGACCTCAACAAAGAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA 1800
Db 1741 GCAAAATTTTATGACCTCAACAAAGAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCGAGTCTTTTATAG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCGAGTCTTTTATAG 1860
QY 1861 TGTTTTTGCAAGGGAATGAATCCATTTATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTTGCAAGGGAATGAATCCATTTATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
```

```
QY 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCTCATTTCTTGGTTTGTATGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCTCATTTCTTGGTTTGTATGTTTAAAAA 1980
QY 1981 AATAACATCTCTTTTCATCTAGCTCATTAATTCGAAGGGAAGAGATTAGCATGAAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGCTCATTAATTCGAAGGGAAGAGATTAGCATGAAAGGTAA 2040
QY 2041 TCTGAAACACAGCTCATGTGTCACTGTAGAAAGGTTGATTCTCTGCACTNCAAAATACATT 2100
Db 2041 TCTGAAACACAGCTCATGTGTCACTGTAGAAAGGTTGATTCTCTGCACTNCAAAATACATT 2100
QY 2101 CCAAGAGTTCATCATGCGGGATTTTTCATTTTAGGCTTTTCACTGCTTTTCTCTGGAAT 2160
Db 2101 CCAAGAGTTCATCATGCGGGATTTTTCATTTTAGGCTTTTCACTGCTTTTCTCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 5
US-10-500-050-1
; Sequence 1, Application US/10500050
; Publication No. US20050106568A1
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Method of Quantifying Nucleic Acid And Kit for Quantifying Nucleic Acid
; FILE REFERENCE: P02-0156
; CURRENT APPLICATION NUMBER: US/10/500,050
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: JP 2001-400280
; PRIOR FILING DATE: 2001-12-28
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063.. 2091
; OTHER INFORMATION: n stands for any base
US-10-500-050-1

Query Match          99.8%; Score 2158.4; DB 9; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
Db 61 CGCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
QY 121 GCGCAAGGAAGACGGCTGAGGCGCTTGGAAACCGAAAAAGTCTCGGTGCTCTCGGTACCT 180
Db 121 GCGCAAGGAAGACGGCTGAGGCGCTTGGAAACCGAAAAAGTCTCGGTGCTCTCGGTACCT 180
QY 181 CGCACAGCGGTCCCGCCCGCGCGTCACTGATGACATGAGCAGCAGCGTGTGCGCAAG 240
Db 181 CGCACAGCGGTCCCGCCCGCGCGTCACTGATGACATGAGCAGCAGCGTGTGCGCAAG 240
QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCCCCCGCCAGCACCCAGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCCCCCGCCAGCACCCAGCCCGGTT 300
QY 301 CTGTGGTCAACTTGTCCCACTTTAGATGGCAAACCTGTCCGACCCATCGGTCCGAAACCGCA 360
Db 301 CTGTGGTCAACTTGTCCCACTTTAGATGGCAAACCTGTCCGACCCATCGGTCCGAAACCGCA 360
QY 361 CCAACCTGGGCGGAGAGACAGCCTGTGTCCCTCCGACGGCAGTCCCTCCATGATCACGG 420
```


; NAME/KEY: misc.feature									
; LOCATION: 2063_2091									
; OTHER INFORMATION: n = A,T,C or G									
US-09-883-839-5									
Query Match 99.8%; Score 2156.8; DB 3; Length 2162;									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;									
QY	1	GGAAATCCGGCTATAGGCAGAGGAGAAATGTCAAGATGCTCAGCTCGGTCCGCTCGGCTGA	60						
DB	1	GGAAATCCGGCTATAGGCAGAGGAGAAATGTCAAGATGCTCAGCTCGGTCCGCTCGGCTGA	60						
QY	61	CGCTCCTCTCTGTCTCAGCCAGGACTGGTTCTGTGAAGAACAGCAGGAGCTGTGCAGC	120						
DB	61	CGCTCCTCTCTGTCTCAGCCAGGACTGGTTCTGTGAAGAACAGCAGGAGCTGTGCAGC	120						
QY	121	GGCGAAAGGAGCGGCTGAGGCGCTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT	180						
DB	121	GGCGAAAGGAGCGGCTGAGGCGCTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT	180						
QY	181	CGCACAGCGGTGCCCGCGCGCTCAGTACCAATGACAGCAGCGCTGCCCGCCACGAAAG	240						
DB	181	CGCACAGCGGTGCCCGCGCGCTCAGTACCAATGACAGCAGCGCTGCCCGCCACGAAAG	240						
QY	241	CGAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCAGCCGCGGTT	300						
DB	241	CGAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCAGCCGCGGTT	300						
QY	301	CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCGCGAACCGCA	360						
DB	301	CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCGCGAACCGCA	360						
QY	361	CCAACCTGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGCACTGCCCTCATGATCACGG	420						
DB	361	CCAACCTGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGCACTGCCCTCATGATCACGG	420						
QY	421	CCATCAGATCATGGCGCTTACTCCATCGTGTGCGTGTGGGCTCTTCGGAACCTCC	480						
DB	421	CCATCAGATCATGGCGCTTACTCCATCGTGTGCGTGTGGGCTCTTCGGAACCTCC	480						
QY	481	TGTCATGTATGTGTGTGTCAGATACACCAAGATGAAGACTGCGACCAACATCTACATTT	540						
DB	481	TGTCATGTATGTGTGTGTCAGATACACCAAGATGAAGACTGCGACCAACATCTACATTT	540						
QY	541	TCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCCTGCCCTTCCAGAGTGTGAAT	600						
DB	541	TCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCCTGCCCTTCCAGAGTGTGAAT	600						
QY	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATGATGATCTCCATAGAT	660						
DB	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATGATGATCTCCATAGAT	660						
QY	661	ACTATAACATGTTTACCAGCATATTCACCTCTGCAACCATGAGTGTGATCGATACATTTG	720						
DB	661	ACTATAACATGTTTACCAGCATATTCACCTCTGCAACCATGAGTGTGATCGATACATTTG	720						
QY	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTAATCCCGGAAATGCCAAATATATCA	780						
DB	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTAATCCCGGAAATGCCAAATATATCA	780						
QY	781	ATGTCGTCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA	840						
DB	781	ATGTCGTCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA	840						
QY	841	CAAAATACAGGCAAGGTTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACT	900						
DB	841	CAAAATACAGGCAAGGTTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACT	900						
QY	901	GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTTTCATTTAGCCAGTGCATCA	960						
DB	901	GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTTTCATTTATATGATGCTCATCA	960						
QY	961	TTACCGTGTGCTATGAGCTATGATCTTTGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020						
DB	961	TTACCGTGTGCTATGAGCTATGATCTTTGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020						
QY	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080						
DB	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080						
QY	1081	TGTTTCATCGTCTGCTGGACTCCCATTCACATTTAGTCAATTAAGCTTGTGTTTACAA	1140						
DB	1081	TGTTTCATCGTCTGCTGGACTCCCATTCACATTTAGTCAATTAAGCTTGTGTTTACAA	1140						
QY	1141	TCCCAAGAACTACGTTCCAGACTGTTTCTTGGCAGCTTCTGCAATTTAGTGTACACAA	1200						
DB	1141	TCCCAAGAACTACGTTCCAGACTGTTTCTTGGCAGCTTCTGCAATTTAGTGTACACAA	1200						
QY	1201	ACAGTGTGCTCAACCCAGTCTTTTATGCAATTTCTGATGAAACCTTCAACGATGCTTCA	1260						
DB	1201	ACAGTGTGCTCAACCCAGTCTTTTATGCAATTTCTGATGAAACCTTCAACGATGCTTCA	1260						
QY	1261	GAGAGTCTGTATCCCAACCTCTTCCACATTTAGCAACAACTCCACTCGAATTCGTC	1320						
DB	1261	GAGAGTCTGTATCCCAACCTCTTCCACATTTAGCAACAACTCCACTCGAATTCGTC	1320						
QY	1321	AGAACACTAGAGACCAACCCCTCCACGGCCAAATACAGTGTAGTAACTAATCATCAGCTAG	1380						
DB	1321	AGAACACTAGAGACCAACCCCTCCACGGCCAAATACAGTGTAGTAACTAATCATCAGCTAG	1380						
QY	1381	AAAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCACCTT	1440						
DB	1381	AAAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCACCTT	1440						
QY	1441	CACCAAGCTTAGAACCCCATGTATGTGGAAGCAGGTTGCTTCAAGATGTGTAGGAGG	1500						
DB	1441	CACCAAGCTTAGAACCCCATGTATGTGGAAGCAGGTTGCTTCAAGATGTGTAGGAGG	1500						
QY	1501	CTCTAATCTCTAGGAAAGTGCTTACTTTTAGGTCAATCCAACTCTTCTCTCGGCCA	1560						
DB	1501	CTCTAATCTCTAGGAAAGTGCTTACTTTTAGGTCAATCCAACTCTTCTCTCGGCCA	1560						
QY	1561	CTCTGCTCTGCACTTTAGAGGACAGCCAAAGTAAAGTGTGAGCATTTGGAGGAAAGGAA	1620						
DB	1561	CTCTGCTCTGCACTTTAGAGGACAGCCAAAGTAAAGTGTGAGCATTTGGAGGAAAGGAA	1620						
QY	1621	TATACACACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCATCGTG	1680						
DB	1621	TATACACACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCATCGTG	1680						
QY	1681	GTATGTGAATTTGAAGTCAATATAAAAGGTGACCCCTTCTGTGTAAAGATTTTATTTCAA	1740						
DB	1681	GTATGTGAATTTGAAGTCAATATAAAAGGTGACCCCTTCTGTGTAAAGATTTTATTTCAA	1740						
QY	1741	GCAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA	1800						
DB	1741	GCAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA	1800						
QY	1801	CATTAAGTAAATGCTTACCTCTGATCAAGCACCTTCAATGGAAGGTCGAGTCTTTTAG	1860						
DB	1801	CATTAAGTAAATGCTTACCTCTGATCAAGCACCTTGAATGGAAGGTCGAGTCTTTTAG	1860						
QY	1861	TGTTTTTGAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTAAAT	1920						
DB	1861	TGTTTTTGAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTAAAT	1920						
QY	1921	TAGCATCTGGCTAAGGCATCAATTTCCACCTTCCATTTCTTGGTTTGTATTTTAAAAA	1980						
DB	1921	TAGCATCTGGCTAAGGCATCAATTTCCACCTTCCATTTCTTGGTTTGTATTTTAAAAA	1980						
QY	1981	AATAACATCTTTTCACTAGCTCCATAATTTCAAGGGAAGATTTAGCATGAAGGTAA	2040						
DB	1981	AATAACATCTTTTCACTAGCTCCATAATTTCAAGGGAAGATTTAGCATGAAGGTAA	2040						
QY	2041	TCTGAAACACAGTCAATGT	2100						

Db 2041 TCTGAACAGTCATGTGTCANCTGTAGAAAGTGTGATTTCTCATGCACINCAATACTT 2100
Qy 2101 CCAAGAGTCATCATGCGGGGATTTTCATTTCTTAGGCTTTAGGCTTTAGTGGTTTGTCTCGAAT 2160
Db 2101 CCAAGAGTCATCATGCGGGGATTTTCATTTCTTAGGCTTTAGTGGTTTGTCTCGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 7

US-09-883-839-7
; Sequence 7, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G

Query Match 99.8%; Score 2156.8; DB 3; Length 2162;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAGAGGAGATGTGATGTCAGTGTCTGAGTCCGCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGCAGAGGAGATGTGATGTCAGTGTCTGAGTCCGCTCCGCTGA 60
Qy 61 CGCTCCTCTGTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTGTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Qy 121 GCGAAAGGAAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGCTACCT 180
Db 121 GCGAAAGGAAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGCTACCT 180
Qy 181 CGCAGCGGTGCCGCGCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCGCCAGCAAG 240
Db 181 CGCAGCGGTGCCGCGCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCGCCAGCAAG 240
Qy 241 CCAGCAATTTGCACTGATGCTTGGGCTACTCAAGTTGGCCCGCCAGCACCCAGCCCGGTT 300
Db 241 CCAGCAATTTGCACTGATGCTTGGGCTACTCAAGTTGGCTCCCGAGCACCCAGCCCGGTT 300
Qy 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGGGGTCCGAACCGCA 360
Db 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGGGGTCCGAACCGCA 360
Qy 361 CCAACCTGGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAATCTGGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGCATATGSCCTCTACTTCCATCGTGTGGTGGGCTCTTTGGAAACTTCC 480

Db 421 CCATCAGCATATGSCCTCTACTCTCATCGTGTGGTGGGCTCTTCGGAACTTCC 480
Qy 481 TGGTCATGTATGTGATTTGTAGATACCAAGATGAAGACTGCGACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATTTGTAGATACCAAGATGAAGACTGCGACCAACATCTACATTT 540
Qy 541 TCAACCTTGTCTGTGGCAGATGCTTGAAGCAACGATACCTTCCGCTTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTGTGGCAGATGCTTGAAGCAACGATACCTTCCGCTTCCAGAGTGTGAAT 600
Qy 601 ACCTAATGGACATGCGCATTTTGGAAACCATCTTTGCAAGATAGTAGATCTCCATAGATT 660
Db 601 ACCTAATGGACATGCGCATTTTGGAAACCATCTTTGCAAGATAGTAGATCTCCATAGATT 660
Qy 661 ACTATAACATGTTTACCAGCATATTTCAACCTCTGACACCATAGTGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTACCAGCATATTTCAACCTCTGACACCATAGTGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTGAATTTCCGTACTCCCGAAATGCCAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTGAATTTCCGTACTCCCGAAATGCCAAATATATCA 780
Qy 781 ATGTCTGCAACTGGATCTCTCTTCCAGCAATTTGCTCTCTGTAATGTTTCCATGCTACAA 840
Db 781 ATGTCTGCAACTGGATCTCTCTTCCAGCAATTTGCTCTCTGTAATGTTTCCATGCTACAA 840
Qy 841 CAAATACAGGCAAGGTTTCCATAGATTTGACATAACATTTCTCTCAACCTGGTACT 900
Db 841 CAAATACAGGCAAGGTTTCCATAGATTTGACATAACATTTCTCTCAACCTGGTACT 900
Qy 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCCAGTGTCTATCA 960
Db 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGACTGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTCGCT 1020
Db 961 TTACCGTGTCTATGACTGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTCGCT 1020
Qy 1021 CCAAGAAAGGACAGGAATCTTTCGAAGGATCACCAGGATGGTGTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGACAGGAATCTTTCGAAGGATCACCAGGATGGTGTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGTGACTCCCATTACATTTACGTCATCAATTAAGCCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGTGACTCCCATTACATTTACGTCATCAATTAAGCCCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCACTTGTCTTAGGTTACAA 1200
Db 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCACTTGTCTTAGGTTACAA 1200
Qy 1201 ACAGCTGCTCAACCCAGTCTTTTATGCAATTTCTGGAATGAAACTTCAAAACGATGCTTCA 1260
Db 1201 ACAGCTGCTCAACCCAGTCTTTTATGCAATTTCTGGAATGAAACTTCAAAACGATGCTTCA 1260
Qy 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGAAGCAACAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGAAGCAACAACTCCACTCGAATTCGTC 1320
Qy 1321 AGAACACTAGAGACACCCCTCCAGCGCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACACCCCTCCAGCGCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Qy 1381 AATACTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCGCAATTCGACCTT 1440
Db 1381 AATACTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCGCAATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
Qy 1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGGTCTCAACCTCTTCTCTCTGCGCA 1560
Db 1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGGTCTCAACCTCTTCTCTCTGCGCA 1560

1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTGGAGAAAGGAA 1620
1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTGGAGAAAGGAA 1620
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACAAACCCATCGTG 1680
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACAAACCCATCGTG 1680
1681 GTATGGAATGGAAGTCAATCAATAAAGGTGACCCCTTCTGTCGTGTAAGATTTTATTTCAA 1740
1681 GTATGGAATGGAAGTCAATCAATAAAGGTGACCCCTTCTGTCGTGTAAGATTTTATTTCAA 1740
1741 GCAAAATTTATGACCTCAACAAAGAACCACTTTTGTGTAAGTTCACCGTAGTAACA 1800
1741 GCAAAATTTATGACCTCAACAAAGAACCACTTTTGTGTAAGTTCACCGTAGTAACA 1800
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTATG 1860
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTATG 1860
1861 TGTTTTGCAAGGAATGAATCAATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1861 TGTTTTGCAAGGAATGAATCAATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGCATCAATTTTCACTCCATTTCTTGGTTTCTGATTTTAAATAA 1980
1921 TAGCATCTGGCTAAGCATCAATTTTCACTCCATTTCTTGGTTTCTGATTTTAAATAA 1980
1981 AATAACATCTCTTTATCTAGCTCCATTAATTGCAAGGAAGAGATTAGCATGAAAGTAA 2040
1981 AATAACATCTCTTTATCTAGCTCCATTAATTGCAAGGAAGAGATTAGCATGAAAGTAA 2040
2041 TCTGAAACACAGTCATGTGTCTGTCANCTGTAGAAAGTTGATTTCTATGCACTNCAAAAT 2100
2041 TCTGAAACACAGTCATGTGTCTGTCANCTGTAGAAAGTTGATTTCTATGCACTNCAAAAT 2100
2101 CCAAGAGTCAATGCGGGATTTTCACTTTAGGCTTTTCACTGAGTGGTTTCTCTGGAAT 2160
2101 CCAAGAGTCAATGCGGGATTTTCACTTTAGGCTTTTCACTGAGTGGTTTCTCTGGAAT 2160
2161 TC 2162
2161 TC 2162

RESULT 8
US-09-883-839-8
; Sequence 8, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; PRIOR FILING DATE: 2001-06-18
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063, 2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-8

Query Match 99.8%; Score 2156.6; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GGAATTCGGGCTATAGGCAGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGGCTATAGGCAGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGAGCTGTGCAGC 120
Db 61 CGCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGAGCTGTGCAGC 120
QY 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
Db 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
QY 181 CGCAGACGGTCCCGCCCGCTCAGTACAGTACAGTACAGTACAGTACAGTACAGTACAGT 240
Db 181 CGCAGACGGTCCCGCCCGCTCAGTACAGTACAGTACAGTACAGTACAGTACAGTACAGT 240
QY 241 CCAGCAATTTGCACTGATGCTTGGGCTACTCAAGTTTGGCCCTCCAGCACCCAGCCCGGTT 300
Db 241 CCAGCAATTTGCACTGATGCTTGGGCTACTCAAGTTTGGCCCTCCAGCACCCAGCCCGGTT 300
QY 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCCGAAACCGCA 360
Db 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCCGAAACCGCA 360
QY 361 CCAACCTGGCGGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTCCATGATCAGCG 420
Db 361 CCAACCTGGCGGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTCCATGATCAGCG 420
QY 421 CCATCAGATCATGCGCCCTCTACTCCATCGTGTGGGCTCTTCGGAACCTTCC 480
Db 421 CCATCAGATCATGCGCCCTCTACTCCATCGTGTGGGCTCTTCGGAACCTTCC 480
QY 481 TGGTCATGTATGTGATTTGTGATGATACCAAGATGAAGACTGCGACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATTTGTGATGATACCAAGATGAAGACTGCGACCAACATCTACATTT 540
QY 541 TCAACCTTCTCTGGCAGATGCTTAGCCACAGTACCTTCCGCTCCGCTCCGAGTGTGAAT 600
Db 541 TCAACCTTCTCTGGCAGATGCTTAGCCACAGTACCTTCCGCTCCGCTCCGAGTGTGAAT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTCTTGAAGATGATGATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTCTTGAAGATGATGATCTCCATAGATT 660
QY 661 ACTATAACATGTTTACAGCATATTTCAACCTCTGCAACCATGATGATGATGATGATGAT 720
Db 661 ACTATAACATGTTTACAGCATATTTCAACCTCTGCAACCATGATGATGATGATGATGAT 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCTCCGAAATGCCAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCTCCGAAATGCCAAATATATCA 780
QY 781 ATGTCTGCAACTGGAATCTCTTCCAGCCATGCTCTCTGTAATGTTTCAATGCTGCTACAA 840
Db 781 ATGTCTGCAACTGGAATCTCTTCCAGCCATGCTCTCTGTAATGTTTCAATGCTGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATAACATTTCTCTCATCCAACTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATAACATTTCTCTCATCCAACTGGTACT 900
QY 901 GGGAAACCTCTGTAAGATCTGTGTTTTCATCTTCCCTTCATTTATGCGAGTCTCATCA 960
Db 901 GGGAAACCTCTGTAAGATCTGTGTTTTCATCTTCCCTTCATTTATGCGAGTCTCATCA 960
QY 961 TTACCGTGTCTATGAGTGTGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGAGTGTGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGCTGGTGGTGGCTG 1080

Db 1021 CCAAGAAAGCAGCAGGAATCTTGAAGGATCACCAGGATGCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTGTGAGTCCCAATTCATTTAGTCATCATTTAAAGCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTGTGAGTCCCAATTCATTTAGTCATCATTTAAAGCCTTGGTTACAA 1140
Qy 1141 TCCAGAAATACGTTTCAGACTGTTTCTGGCAGTCTCTGATTTGCTCTAGTTTACAA 1200
Db 1141 TCCAGAAATACGTTTCAGACTGTTTCTGGCAGTCTCTGATTTGCTCTAGTTTACAA 1200
Qy 1201 ACAGTGTCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACTTCAAACGATCTTCA 1260
Db 1201 ACAGTGTCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACTTCAAACGATCTTCA 1260
Qy 1261 GAGAGTTCGTATCCCAACCTCTTCCCAACATTTGAGCAACAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCGTATCCCAACCTCTTCCCAACATTTGAGCAACAACTCCACTCGAATTCGTC 1320
Qy 1321 AGAAGTGTATCCCAACCTCTTCCCAACATTTGAGCAACAACTCCACTCGAATTCGTC 1380
Db 1321 AGAAGTGTATCCCAACCTCTTCCCAACATTTGAGCAACAACTCCACTCGAATTCGTC 1380
Qy 1381 AAAATCTGGAAGCAGAACTGCTCGTGTGCTTCCCTTAAACAGGCTCTCATGCAATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTGCTCGTGTGCTTCCCTTAAACAGGCTCTCATGCAATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAACCCACCATGATGATGGAAGCAGGTTGCTTCAAGATGTGTAGAGG 1500
Db 1441 CACCAAGCTTAGAACCCACCATGATGATGGAAGCAGGTTGCTTCAAGATGTGTAGAGG 1500
Qy 1501 CTCTAAATCTTAGGAAAGTGCCTACTTTTAAAGTGCATCCAACTCTTCTCTGCGCA 1560
Db 1501 CTCTAAATCTTAGGAAAGTGCCTACTTTTAAAGTGCATCCAACTCTTCTCTGCGCA 1560
Qy 1561 CTCTGCTCTGACATTTAGAGGAGCAGCCAAAGTAAAGTGAAGCAATTTGGAAGGAAAGAA 1620
Db 1561 CTCTGCTCTGACATTTAGAGGAGCAGCCAAAGTAAAGTGAAGCAATTTGGAAGGAAAGAA 1620
Qy 1621 TATACCAACCGAGAGTCCAGTTTGTGGAAGACACCCAGTGAAGCAGAAACCCATCGTG 1680
Db 1621 TATACCAACCGAGAGTCCAGTTTGTGGAAGACACCCAGTGAAGCAGAAACCCATCGTG 1680
Qy 1681 GTATGTGAATTTGAAGTGCATTAAGTGCCTTCTGCTGTAAGATTTTATTTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTGCATTAAGTGCCTTCTGCTGTAAGATTTTATTTTCAA 1740
Qy 1741 GCAATATTTATGACCTCAACAAAGAAAGACCATCTTTTGTAAAGTTTCAACGCTAGTAACA 1800
Db 1741 GCAATATTTATGACCTCAACAAAGAAAGACCATCTTTTGTAAAGTTTCAACGCTAGTAACA 1800
Qy 1801 CATAAGTAAATGCTTACCTCTGATCAAGACACCTTTGAATGGAAGTCCGAGTCTTTTATAG 1860
Db 1801 CATAAGTAAATGCTTACCTCTGATCAAGACACCTTTGAATGGAAGTCCGAGTCTTTTATAG 1860
Qy 1861 TGTTTTTCAGAGGAAATGAATCCATTTATTTTATGACTTTTAACTTCACTTAAAT 1920
Db 1861 TGTTTTTCAGAGGAAATGAATCCATTTATTTTATGACTTTTAACTTCACTTAAAT 1920
Qy 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTTCAATTTCTGTTTGTATTTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTTCAATTTCTGTTTGTATTTGTTTAAAAA 1980
Qy 1981 AATAACATCTCTTTTATCTAGCTCCATTAATGCAAGGAAAGATATTAGCATGAAGGTTAA 2040
Db 1981 AATAACATCTCTTTTATCTAGCTCCATTAATGCAAGGAAAGATATTAGCATGAAGGTTAA 2040
Qy 2041 TCTGAAACACAGTGTGTGATGTAAGGTTGATTTCTCATGCACTNCAATATCTT 2100
Db 2041 TCTGAAACACAGTGTGTGATGTAAGGTTGATTTCTCATGCACTNCAATATCTT 2100
Qy 2101 CCAAGAGTGCATCATGGGGGATTTTCTATCTTAGCTTTTCTAGTGTGTTTCTCTGGAAAT 2160

Db 2101 CCAAGAGTGCATCATGGGGGATTTTCTATCTTAGGCTTTTCTAGTGTGTTTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162
RESULT 9
US-09-883-839-9
; Sequence 9, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-286N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2165
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2066, 2094
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-9
Query Match 99.2%; Score 2145.4; DB 3; Length 2165;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
Qy 1 GGAATTCGGCTATAGGACAGAGGAGAAATGTACAGATGTCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGACAGAGGAGAAATGTACAGATGTCTCAGCTCGGTCCCTCCGCTGA 60
Qy 61 CGCTCTCTCTGTCTCAGCCAGGAGTGGTTTCTGTAAAGAACAGCAGAGAGTGTGGCAGC 120
Db 61 CGCTCTCTCTGTCTCAGCCAGGAGTGGTTTCTGTAAAGAACAGCAGAGAGTGTGGCAGC 120
Qy 121 GCGAAAGGAAGCGGCTGAGCGCTTGGACCCGAAAGTCTCGGTGCTCTCTGCTACCT 180
Db 121 GCGAAAGGAAGCGGCTGAGCGCTTGGACCCGAAAGTCTCGGTGCTCTCTGCTACCT 180
Qy 181 CGCACAGCGGTGCCCGCCGCTCAGTACATGGACAGCAGCGCTGCCCGCCAGAAAG 240
Db 181 CGCACAGCGGTGCCCGCCGCTCAGTACATGGACAGCAGCGCTGCCCGCCAGAAAG 240
Qy 241 CCAGCAATTTGACATGATGCTTGGCGTACTCAAGTTGCTCCAGCAGCAGCGCGGT 300
Db 241 CCAGCAATTTGACATGATGCTTGGCGTACTCAAGTTGCTCCAGCAGCAGCGCGGT 300
Qy 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCCGACCCGA 360
Db 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCCGACCCGA 360
Qy 361 CCAACCTGGGGGAGAGACAGCCTGTGCGCTCCGAC---CGGACAGTCCCTCCATGATCA 417
Db 361 CCAACCTGGGGGAGAGACAGCCTGTGCGCTCCGAC---CGGACAGTCCCTCCATGATCA 420
Qy 418 CGGCGATCAGCATCATGCGCTCTTACTTCCATCGTGTGGTGGGTCTTTCGAAACT 477
Db 421 CGGCGATCAGCATCATGCGCTCTTACTTCCATCGTGTGGTGGGTCTTTCGAAACT 480
Qy 478 TCCTGGTGCATGTATGTGATGTACAGATACACCAAGATGAAGACTGCCACCAACATCTTACA 537
Db 481 TCCTGGTGCATGTATGTGATGTACAGATACACCAAGATGAAGACTGCCACCAACATCTTACA 540

QY 538 TTTTCAACCTTGCTCTGGCAGATGCCCTTAGCCACCAGTACCCCTGCCCTCCAGAGTGTA 597
Db 541 TTTTCAACCTTGCTCTGGCAGATGCCCTTAGCCACCAGTACCCCTGCCCTCCAGAGTGTA 600
QY 598 ATTACCTAAATGGGAACAATGGCCATTTGGAAACCAATCTCTTTGCAAGATAGTGATCTCCATAG 657
Db 601 ATTACCTAAATGGGAACAATGGCCATTTGGAAACCAATCTCTTTGCAAGATAGTGATCTCCATAG 660
QY 658 ATTACTATAATAGTTTCCAGCATATTCACCTCTGACCATGAGTGTGATGCGATACA 717
Db 661 ATTACTATAATAGTTTCCAGCATATTCACCTCTGACCATGAGTGTGATGCGATACA 720
QY 718 TTGCAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTA 777
Db 721 TTGCAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTA 780
QY 778 TCAATGTCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTA 837
Db 781 TCAATGTCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTA 840
QY 838 CAACAAATAACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCAACTGGT 897
Db 841 CAACAAATAACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCAACTGGT 900
QY 898 ACTGGGAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTATGCCAGTGCTCA 957
Db 901 ACTGGGAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTATGCCAGTGCTCA 960
QY 958 TCATTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1017
Db 961 TCATTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1020
QY 1018 GCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGG 1077
Db 1021 GCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGG 1080
QY 1078 CTGTGTTTCATCGTCTGTGACTGCCATTCACATTTTACGTCATCAATTAAGCCTTGGTTA 1137
Db 1081 CTGTGTTTCATCGTCTGTGACTGCCATTCACATTTTACGTCATCAATTAAGCCTTGGTTA 1140
QY 1138 CAATCCAGAAAATCACTGCTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1197
Db 1141 CAATCCAGAAAATCACTGCTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1200
QY 1198 CAACACGCTGCCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAATCTTCAACGATGCT 1257
Db 1201 CAACACGCTGCCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAATCTTCAACGATGCT 1260
QY 1258 TCAGAGAGTTCTGTATCCCAACCTCTTCGAACATTTAGGCAACAAAATCCACTCGAATTC 1317
Db 1261 TCAGAGAGTTCTGTATCCCAACCTCTTCCAACTTTGAGCAACAAAATCCACTCGAATTC 1320
QY 1318 GTCAGAACACTAGAGACCCCTCCACGSCCAATACAGTGGATAGAACTTAATCATCAGC 1377
Db 1321 GTCAGAACACTAGAGACCCCTCCACGSCCAATACAGTGGATAGAACTTAATCATCAGC 1380
QY 1378 TAGAAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTTAACAGGGTCTCATGCCATTCGGAC 1437
Db 1381 TAGAAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTTAACAGGGTCTCATGCCATTCGGAC 1440
QY 1438 CTTTCAACAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGATGTGTAGG 1497
Db 1441 CTTTCAACAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGATGTGTAGG 1500
QY 1498 AGGCTCTAATCTCTAGGAAGTGCCTACTTTTATAGTTCATCCAACTCTTTCCTCTCTCG 1557
Db 1501 AGGCTCTAATCTCTAGGAAGTGCCTACTTTTATAGTTCATCCAACTCTTTCCTCTCTCG 1560
QY 1558 CCACTCTGCTCTGCACATTTAGAGGGACAGCAAAAGTAAGTGGAGCATTTTGGAAAGAAAG 1617
Db 1561 CCACTCTGCTCTGCACATTTAGAGGGACAGCAAAAGTAAGTGGAGCATTTTGGAAAGAAAG 1620

QY 1618 GAATATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
Db 1621 GAATATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
QY 1678 GTGGTATGTGAATGAAGTCATCAATAAAGGTTGACCCCTTCTGTCTGTAAAGATTTTATTTT 1737
Db 1681 GTGGTATGTGAATGAAGTCATCAATAAAGGTTGACCCCTTCTGTCTGTAAAGATTTTATTTT 1740
QY 1738 CAAGCAATATTTATGACCTCAACAAAGAAAGCAACATCTTTTGTAAAGTTTCAACCGTAGTA 1797
Db 1741 CAAGCAATATTTATGACCTCAACAAAGAAAGCAACATCTTTTGTAAAGTTTCAACCGTAGTA 1800
QY 1798 ACACATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAAGTCCGAGTCTTTT 1857
Db 1801 ACACATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAAGTCCGAGTCTTTT 1860
QY 1858 TAGTGTTTTTCGAAGGAATGAATCAATTTCTATTTTATGACTTTTAACTTCAACTTAA 1917
Db 1861 TAGTGTTTTTCGAAGGAATGAATCAATTTCTATTTTATGACTTTTAACTTCAACTTAA 1920
QY 1918 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTCTGATTTGTTTAA 1977
Db 1921 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTCTGATTTGTTTAA 1980
QY 1978 AAAAATAACATCTCTTTTCACTAGCTTCCATAATTTGCAAGGAAGAGATTAGCATGAAAG 2037
Db 1981 AAAAATAACATCTCTTTTCACTAGCTTCCATAATTTGCAAGGAAGAGATTAGCATGAAAG 2040
QY 2038 TAATCTGAAACACAGTCATGTCTCANCCTGTAGAAAAGTTGATTTTCATGCATCNCATAA 2097
Db 2041 TAATCTGAAACACAGTCATGTCTCANCCTGTAGAAAAGTTGATTTTCATGCATCNCATAA 2100
QY 2098 CTTCCAAAGAGTCATCATGGGGATTTTTCATTTCTAGGCTTTTCACTGTTTGTCTCTCG 2157
Db 2101 CTTCCAAAGAGTCATCATGGGGATTTTTCATTTCTAGGCTTTTCACTGTTTGTCTCTCG 2160
QY 2158 AATTTC 2162
Db 2161 AATTTC 2165

RESULT 10

US-10-080-917-12
; Sequence 12, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2149
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-12

Query Match 97.5%; Score 2108.8; DB 5; Length 2149;

Best Local Similarity 99.5%; Pred. No. 0;

Matches 2135; Conservative 0; Mismatches 9; Indels 2; Gaps 2;

QY 9 GGCTATAGCAGCAGGAGGAATGTCAAGTGTCAAGTCCCGTCCCGCTGAGCGTCTCTC 68

Db 6 GGCTATACGACAGGAGGAATGTCAAGTGTCAAGTCCCGTCCCGCTGAGCGTCTCTC 65

QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 128

Db 66 TCTGTCTCAGCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGCGAAG 125
Qy 129 GAAGCGGCTGAGGGCTTGGAAACCCGAAAAGTCTCGGTGCTCTCTGGTCACTCGCACAGC 188
Db 126 GAAGCGGCTGAGGGCTTGGAAACCCGAAAAGTCTCGGTGCTCTCTGGTCACTCGCACAGC 185
Qy 189 GGTGCCCGCCGGCGTCACTGATGAGCAGCAGCAGCGCTGCCGCCACGAAACGCCAGCAAT 248
Db 186 GGTGCCCGCCGGCGTCACTGATGAGCAGCAGCAGCGCTGCCGCCACGAAACGCCAGCAAT 245
Qy 249 TGCACTGATGCTTTGGGGTACTCAAGTTGGCCCGCCAGCACCCAGCCCGGTTCTGGGTC 308
Db 246 TGCACTGATGCTTTGGGGTACTCAAGTTGGCTCCCGCAGCACCCAGCCCGGTTCTGGGTC 305
Qy 309 AACTGTGTCACCTTAGATGGCAACCTGTCCGACCCATCGCGTCCGAACCCGACCCAGCTG 368
Db 306 AACTGTGTCACCTTAGATGGCAACCTGTCCGACCCATCGCGTCCGAACCCGACCCAGCTG 365
Qy 369 GGCGGAGAGACAGCGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAGC 428
Db 366 GGCGGAGAGACAGCGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAGC 425
Qy 429 ATCATGCGCCCTACTCTCATCTGTGTGGTGGGGCTCTTCGGAAACTTCTCGGTGTCATG 488
Db 426 ATCATGCGCCCTACTCTCATCTGTGTGGTGGGGCTCTTCGGAAACTTCTCGGTGTCATG 485
Qy 489 TATGTGATTTGTGAGATACACCAAGATGAAGCTGCCACCAACATCTACATTTTCAACCTT 548
Db 486 TATGTGATTTGTGAGATACACCAAGATGAAGCTGCCACCAACATCTACATTTTCAACCTT 545
Qy 549 GCTCTGCGAGTGCCTTAGCACCAGTACCTGCTCCGAGTGGTGAATTAACCTAATG 608
Db 546 GCTCTGCGAGTGCCTTAGCACCAGTACCTGCTCCGAGTGGTGAATTAACCTAATG 605
Qy 609 GGAATGCGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATTTACTATAAC 668
Db 606 GGAATGCGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATTTACTATAAC 665
Qy 669 ATGTTACACGACATATTACCCCTGTGACCMATGATGTGATGATGATGATGATGATGATG 728
Db 666 ATGTTACACGACATATTACCCCTGTGACCMATGATGTGATGATGATGATGATGATGATG 725
Qy 729 CACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTAATCAATGTCTGC 788
Db 726 CACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTAATCAATGTCTGC 785
Qy 789 AACTGGATCCTCTCTCAGCCATTTGGTCTCTCTGTAATGTTCTATGGCTACAAACAAATAC 848
Db 786 AACTGGATCCTCTCTCAGCCATTTGGTCTCTCTGTAATGTTCTATGGCTACAAACAAATAC 845
Qy 849 AGGCAAGTTCCATAGATTTGATACATAACATTTCTCATCCAACTGGTACTGGGAAAC 908
Db 846 AGGCAAGTTCCATAGATTTGATACATAACATTTCTCATCCAACTGGTACTGGGAAAC 905
Qy 909 CTGTAAGATCTGTGTTTTCTCTGCTTCAATTTATGCGAGTGTCCAGTGTCTATCAATACCGTG 968
Db 906 CTGTAAGATCTGTGTTTTCTCTGCTTCAATTTATGCGAGTGTCCAGTGTCTATCAATACCGTG 965
Qy 969 TGCTATGAGCTGATGATCTTGCGCTCAAGAGTGTCCGCATGCTCTCTGGTCCAAAGAA 1028
Db 966 TGCTATGAGCTGATGATCTTGCGCTCAAGAGTGTCCGCATGCTCTCTGGTCCAAAGAA 1025
Qy 1029 AAGGACAGGAATCTTTCGAAGATCACAGGATGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1088
Db 1026 AAGGACAGGAATCTTTCGAAGATCACAGGATGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1085
Qy 1089 GTCTGTGAGCTCCCATTTACATTTACGATCATTAAGCTTTGGTTTACATTTCCAGAA 1148
Db 1086 GTCTGTGAGCTCCCATTTACATTTACGATCATTAAGCTTTGGTTTACATTTCCAGAA 1145
Qy 1149 ACTAGTTCCAGACTGTTTCTTGGCATTCTGCAATTTCTGAGTTTACACAAACAGCTGC 1208

Db 1146 ACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATTTGCTCTAGGTTTACACAAACAGCTGC 1205
Qy 1209 CTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAAACTTCAAAAGATGCTTTACAGAGTTTC 1268
Db 1206 CTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAAACTTCAAAAGATGCTTTACAGAGTTTC 1265
Qy 1269 TGTATCCCAACCTCTTCCAACTTTAGAGCAACAAAACTCACTCGAATTCGTTCAGAACACT 1328
Db 1266 TGTATCCCAACCTCTTCCAACTTTAGAGCAACAAAACTCACTCGAATTCGTTCAGAACACT 1325
Qy 1329 AGAGACCAACCTTCCAGCGCCCAATACAGTGGATAGAACTAAATCATCAGCTAGAAAAATCTG 1388
Db 1326 AGAGACCAACCTTCCAGCGCCCAATACAGTGGATAGAACTAAATCATCAGCTAGAAAAATCTG 1385
Qy 1389 GAAGCAGAAACTCTCTCGTTGCCCTAACAGGGTCTCATGCAATTCGCACTTCCCAAGC 1448
Db 1386 GAAGCAGAAACTCTCTCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTTCCACCAAGC 1445
Qy 1449 TTAGAGCCCAACCATGTGTGGAAGCAGGTGTCTTCAAGATGTGTAGGAGGCTCTAATT 1508
Db 1446 TTAGAGCCCAACCATGTGTGGAAGCAGGTGTCTTCAAGATGTGTAGGAGGCTCTAATT 1505
Qy 1509 CTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1568
Db 1506 CTCTAGGAAAGTGCCTGCTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1565
Qy 1569 TGCACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTTGGAAAGGAAGAAATATACCAAC 1628
Db 1566 TGCACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTTGGAAAGGAAGAAATATACCAAC 1625
Qy 1629 ACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCTGTTGATGTGA 1688
Db 1626 ACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCTGTTGATGTGA 1685
Qy 1689 ATTGAAGTCATCATAAAGGTGACCTTCTGCTGTGAAGATTTTATTTTCAAGCAAAATAT 1748
Db 1686 ATTGAAGTCATCATAAAGGTGACCTTCTGCTGTGAAGATTTTATTTTCAAGCAAAATAT 1745
Qy 1749 TTATGACCTCAACAAAGAAAGAACCATCTTTTGTGTAAGTTTCCCGTAGTAAACATAAAGT 1808
Db 1746 TTATGACCTCAACAAAGAAAGAACCATCTTTTGTGTAAGTTTCCCGTAGTAAACATAAAGT 1805
Qy 1809 AAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTTTAGTGTGTTTG 1868
Db 1806 AAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTTTAGTG-TTTTG 1864
Qy 1869 CAAGGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAATTTAGCATCT 1928
Db 1865 CAAGGGAATGAATCCATTTCTATTTAGACTTTTAACTTCAACTTAAATTTAGCATCT 1924
Qy 1929 GGCTAAGGCATCATTTTCACTCTCATTTCTGTTTGTGTTTGTATTTTAAAAAATAACAT 1988
Db 1925 GGCTAAGGCATCATTTTCACTCTCATTTCTGTTTGTGTTTGTATTTGTTT-AAAAAATAACAT 1983
Qy 1989 CTCTTTTCATCTAGCTCCATAAATTCGAAGGAAGATTTAGCATGAAAGGTAATCTGAAAC 2048
Db 1984 CTCTTTTCATCTAGCTCCATAAATTCGAAGGAAGATTTAGCATGAAAGGTAATCTGAAAC 2043
Qy 2049 ACAGTCATGTGTCANTGTAGAAAGGTTGATTTCTCATGCACTNCAATACTTCCAAAGAG 2108
Db 2044 ACAGTCATGTGTCAGCTGTAGAAAGGTTGATTTCTCATGCACTGCAATACTTCCAAAGAG 2103
Qy 2109 TCATCATGGGGGATTTTTTCACTTTAGGCTTTTCACTGCTTTTGTGTTTGTTC 2154
Db 2104 TCATCATGGGGGATTTTTTCACTTTAGGCTTTTCACTGCTTTTGTGTTTGTTC 2149

RESULT 11
US-10-477-714-33
; Sequence 33, Application US/10477714
; Publication No. US2005003018A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti G.; WARREN, Bridget A.;

[illegible]

1449 TTAAAGCCACCATGTATGTGGAAGCAGAGTTGCTTCAAGAATCTGTAGGAGGCTCTAAAT 1508
1441 TTAAAGCCACCATGTATGTGGAAGCAGAGTTGCTTCAAGAATCTGTAGGAGGCTCTAAAT 1500
1509 CTCTAGAAAGTGCCTACTTTTAAAGTGCATCAACCTCTTTTCTCTCTGCGCACTCTGCTC 1568
1501 CTCTAGAAAGTGCCTACTTTTAAAGTGCATCAACCTCTTTTCTCTCTGCGCACTCTGCTC 1560
1569 TGCACATTAGAGGAGCAGCCAAAGTAAGTGAAGGACATTTGGAAGGAAGGAATATACCA 1628
1561 TGCACATTAGAGGAGCAGCCAAAGTAAGTGAAGGACATTTGGAAGGAAGGAATATACCA 1619
1629 ACCGAGAGTCCAGTTTGTCAAGACACCCAGTGGAAACCAAAACCCATCGTGTATGTGA 1688
1620 ACCGAGAGTCCAGTTTGTCAAGACACCCAGTGGAAACCAAAACCCATCGTGTATGTGA 1679
1689 ATTGAAGTCAATCAATAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTTCAAGCAATAT 1748
1680 ATTGAAGTCAATCAATAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTTCAAGCAATAT 1739
1749 TTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACGTAGTAAACATAAAGT 1808
1740 TTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACGTAGTAAACATAAAGT 1799
1809 AAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGTCCGAGTCTTTTGTAGTGTGTTG 1868
1800 AAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGTCCGAGTCTTTTGTAGTGTGTTG 1858
1869 CAAGGGAATGAATCCATTAATTTTAAAGTCTTTTAACTTTTAACTTTTAACTTTTAACT 1928
1859 CAAGGGAATGAATCCATTAATTTTAAAGTCTTTTAACTTTTAACTTTTAACTTTTAACT 1918
1929 GGCTAAGGCAATCTTTTCACTCAATTTCTTTGTTTGTATTTTAAAGTCTTTTAACTTTTAACT 1988
1919 GGCTAAGGCAATCTTTTCACTCAATTTCTTTGTTTGTATTTTAAAGTCTTTTAACTTTTAACT 1977
1989 CTCTTTTCACTTAGTCCATTAATTTGCAAGGGAAGATTTAGCATGAAAGGTAATCTGAAAC 2048
1978 CTCTTTTCACTTAGTCCATTAATTTGCAAGGGAAGATTTAGCATGAAAGGTAATCTGAAAC 2037
2049 ACAGTCAATGTCTGATCAAAAGGTTGATTTCTCATGCACTNCAATATCTTCAAAAGAG 2108
2038 ACAGTCAATGTCTGATCAAAAGGTTGATTTCTCATGCACTGCAAAATCTTCAAAAGAG 2097
2109 TCATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTCTCT 2155
2098 TCATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTCTCT 2144

RESULT-12
US-10-080-917-13
; Sequence 13, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 1473
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-13

Query Match 62.5%; Score 1351.8; DB 5; Length 1473;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1359; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 17 GCAGAGGAGAAATGTCAAGATGCTCAGCTCGGTCCCTCCGCTCGACGCTCTCTCTCTCTC 76
Db 1 GCAGAGGAGAAATGTCAAGATGCTCAGCTCGGTCCCTCCGCTCGACGCTCTCTCTCTCTC 60
QY 77 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAGAAAGCGC 136
Db 61 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAGAAAGCGC 120
QY 137 TGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGTCTCTCCGACAGCGGTGCCCG 196
Db 121 TGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGTCTCTCCGACAGCGGTGCCCG 180
QY 197 CCGGCGCTGACGTACCATGACAGAGCGCTGCCCGCCACGACGCGCAATTTGCACTGA 256
Db 181 CCGGCGCTGACGTACCATGACAGAGCGCTGCCCGCCACGACGCGCAATTTGCACTGA 240
QY 257 TGCCTTTGGCGTACTCAAGTTGCCCCCAGCACCCAGCCCCGGTTCTTGGGTCAACTTGTGTC 316
Db 241 TGCCTTTGGCGTACTCAAGTTGCTCCCCAGCACCCAGCCCCGGTTCTTGGGTCAACTTGTGTC 300
QY 317 CCACATTAGATGGCAACTGTCCGACCCCATGGGTCCGAACCGCACCAACCTTGGGCGGGAG 376
Db 301 CCACATTAGATGGCAACTGTCCGACCCCATGGGTCCGAACCGCACCAACCTTGGGCGGGAG 360
QY 377 AGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGCGCATCAGCATCATGCGC 436
Db 361 AGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGCGCATCAGCATCATGCGC 420
QY 437 CCTCTACTCTCATCTGTGGTGGTGGTCTTTCGGGAAACTTCTTGGTCAATGTATGTGAT 496
Db 421 CCTCTACTCTCATCTGTGGTGGTGGTCTTTCGGGAAACTTCTTGGTCAATGTATGTGAT 480
QY 497 TGTGAGATACACAAAGATGAAGATGCTCCACCAACTCTACATTTTCAACCTTGGTCTGGC 556
Db 481 TGTGAGATACACAAAGATGAAGATGCTCCACCAACTCTACATTTTCAACCTTGGTCTGGC 540
QY 557 AGATGCTTTAGCACCAAGTACCTTCCCTCCAGAGTGTGAATTTACTTAATGGGAACATG 616
Db 541 AGATGCTTTAGCACCAAGTACCTTCCCTCCAGAGTGTGAATTTACTTAATGGGAACATG 600
QY 617 GCCATTTTGAACCATCTTTTGAAGATAGTGTCTCCATAGATTACTATAACATGTTTCAAC 676
Db 601 GCCATTTTGAACCATCTTTTGAAGATAGTGTCTCCATAGATTACTATAACATGTTTCAAC 660
QY 677 CAGCATATTTACCCCTCTGCACCATGATGTTGATCGATACATTTGCGACCTTGGCACCCTGT 736
Db 661 CAGCATATTTACCCCTCTGCACCATGATGTTGATCGATACATTTGCGACCTTGGCACCCTGT 720
QY 737 CAAGGCTTTAGATTTCCGTACTCCCCGAAATGSCAAATTTATCAATGTCTGCAACTGGAT 796
Db 721 CAAGGCTTTAGATTTCCGTACTCCCCGAAATGSCAAATTTATCAATGTCTGCAACTGGAT 780
QY 797 CCTCTCTTCAGCCATTGGTCTTCTCTGAATGTTTATGGCTTACAAACAAATACAGGCAAGG 856
Db 781 CCTCTCTTCAGCCATTGGTCTTCTCTGAATGTTTATGGCTTACAAACAAATACAGGCAAGG 840
QY 857 TTCCATAGATTGTACACTAAACATTTCTCATCAACCTTGGTACTTGGGAAACCTCTGTGAA 916
Db 841 TTCCATAGATTGTACACTAAACATTTCTCATCAACCTTGGTACTTGGGAAACCTCTGTGAA 900
QY 917 GATCTGTGTTTTCATCTTCCGCTTCAATTTATGCGAGTGTCTCATCATACCGTGTCTATGG 976
Db 901 GATCTGTGTTTTCATCTTCCGCTTCAATTTATGCGAGTGTCTCATCATACCGTGTCTATGG 960
QY 977 ACTGATGATCTTGGCGCTCAAGAGTGTCCGATGTCTCTGGCTTCAAGAAAGGACAG 1036
Db 961 ACTGATGATCTTGGCGCTCAAGAGTGTCCGATGTCTCTGGCTTCAAGAAAGGACAG 1020
QY 1037 GAATCTTCGAAGGATCACCGAGTGTGCTGGTGGTGTGTTTTCATCTGCTGCTG 1096

; Sequence 544, Application US/09826509
; Publication No. US20030204073A1
; GENERAL INFORMATION: Lehmann-Bruinsma, Karin
; APPLICANT: Lin, I-Lin
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Protein-Coupled Receptors
; TITLE OF INVENTION: No. US20030204073A1-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR FILING DATE: 2001-04-05
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 544
; LENGTH: 1203
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-826-509-544

Query Match 55.4%; Score 1198.2; DB 3; Length 1203;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1200; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 213 ATGACAGCAGCGTGTGCCCCACGAAAGCGCGAATTTGCACTGATGCTTGGCGTACTCA 272
Db 1 ATGACAGCAGCGTGTGCCCCACGAAAGCGCGAATTTGCACTGATGCTTGGCGTACTCA 60
Qy 273 AdTTGCCCCCAGCAGCCAGCCCGGTTCTGGGTCACTTGTCCCACTTAGATGGCAAC 332
Db 61 AGTTGCTCCCGCAGCAGCCCGGTTCTGGGTCACTTGTCCCACTTAGATGGCAAC 120
Qy 333 CTGTCCGACCCATCGGTCCGAAACCGCAGCAACCTTGGCGGGAGAGACAGCGCTGTGCCCT 392
Db 121 CTGTCCGACCCATCGGTCCGAAACCGCAGCAACCTTGGCGGGAGAGACAGCGCTGTGCCCT 180
Qy 393 CCGACCGGAGTCCCTCATGATCAAGCCGATCAAGATCATGCGCCCTCTACTCCATCGTG 452
Db 181 CCGACCGGAGTCCCTCATGATCAAGCCGATCAAGATCATGCGCCCTCTACTCCATCGTG 240
Qy 453 TGCCTGTGGGCTTTCGGAACTTCTGTGTCATGTATGTGATGTCAGATACACCAAG 512
Db 241 TGCCTGTGGGCTTTCGGAACTTCTGTGTCATGTATGTGATGTCAGATACACCAAG 300
Qy 513 ATGAAGACTGCGACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTACGCCACC 572
Db 301 ATGAAGACTGCGACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTACGCCACC 360
Qy 573 AGTACCTCGCCCTTCCAGAGTGTGAATPACTAATGGAAACATGGCCATTTGGAAACCATC 632
Db 361 AGTACCTCGCCCTTCCAGAGTGTGAATPACTAATGGAAACATGGCCATTTGGAAACCATC 420
Qy 633 CTTTGCAGATAGTATCTCCATAGATTAACATGTTTCCAGCATATTCACCCCTC 692
Db 421 CTTTGCAGATAGTATCTCCATAGATTAACATGTTTCCAGCATATTCACCCCTC 480
Qy 693 TGCACCATGATGTTGATCGATATCATTCAGTCTGCCACCTGTCAAGGCCCTTAGATTTTC 752
Db 481 TGCACCATGATGTTGATCGATATCATTCAGTCTGCCACCTGTCAAGGCCCTTAGATTTTC 540
Qy 753 CGTACTCCCGAAATGCCAAATTTATCAATGCTGCAACTGGATCTCTCTTCAGCCATT 812
Db 541 CGTACTCCCGAAATGCCAAATTTATCAATGCTGCAACTGGATCTCTCTTCAGCCATT 600
Qy 813 GGTCTTCTGTAATGTTTATGGCTTACAAACAAATACAGGCAAGGTTTCCATAGATTGTA 872
Db 601 GGTCTTCTGTAATGTTTATGGCTTACAAACAAATACAGGCAAGGTTTCCATAGATTGTA 660
Qy 873 CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCATC 932
Db 1 ATGACAGCAGCGTGTGCCCCACGAAAGCGCGAATTTGCACTGATGCTTGGCGTACTCA 60

Db 661 CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTCATC 720
Qy 933 TTGCGCTTCATTTATGCGAGTGTCTCATTTACCGTGTGCTATGAGCTGATGATCTTGGCG 992
Db 721 TTGCGCTTCATTTATGCGAGTGTCTCATTTACCGTGTGCTATGAGCTGATGATCTTGGCG 780
Qy 993 CTCAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGATCTTCGAAGGATC 1052
Db 781 CTCAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGATCTTCGAAGGATC 840
Qy 1053 ACCAGGATGCTGTGCTGTGGTGTGTTTCATGCTGTGCTGGACTCCCATTCACATT 1112
Db 841 AAGAGGATGCTGTGCTGTGGTGTGTTTCATGCTGTGCTGGACTCCCATTCACATT 900
Qy 1113 TAGCTCATATTAAAGCCTTTGGTTACAATCCCAAGAACTACGTTCCAGACTGTTTCTGG 1172
Db 901 TAGCTCATATTAAAGCCTTTGGTTACAATCCCAAGAACTACGTTCCAGACTGTTTCTGG 960
Qy 1173 CACTTCTGCATGCTCTAGGTTACAAAACAGCTGCTCAACCAGTCTCTTATGCAATT 1232
Db 961 CACTTCTGCATGCTCTAGGTTACAAAACAGCTGCTCAACCAGTCTCTTATGCAATT 1020
Qy 1233 CTGATGAAACCTTCAACGATGCTTTCAGAGATCTGTATCCCAACCTCTTCCAACT 1292
Db 1021 CTGATGAAACCTTCAACGATGCTTTCAGAGATCTGTATCCCAACCTCTTCCAACT 1080
Qy 1293 GAGCAACAAACTCCACTCGAATTCGTCAAGAACACTAGAGACCAACCCCTCCACGCCAAT 1352
Db 1081 GAGCAACAAACTCCACTCGAATTCGTCAAGAACACTAGAGACCAACCCCTCCACGCCAAT 1140
Qy 1353 ACAGTGATAGAACTAATCATCAGCTAGAAAAATCTGGAAGCAGAAATCTGCTCCGTGGCC 1412
Db 1141 ACAGTGATAGAACTAATCATCAGCTAGAAAAATCTGGAAGCAGAAATCTGCTCCGTGGCC 1200
Qy 1413 TAA 1415
Db 1201 TAA 1203

RESULT 15

US-10-925-095-544
; Sequence 544, Application US/10925095
; Publication No. US20050019840A1
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Lin, I-Lin
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Non-Endogenous, Constitutively Activated Known G
; TITLE OF INVENTION: Protein-Coupled Receptors
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/10/925,095
; CURRENT FILING DATE: 2004-08-24
; PRIOR APPLICATION NUMBER: US/09/826,509
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 544
; LENGTH: 1203
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-925-095-544

Query Match 55.4%; Score 1198.2; DB 8; Length 1203;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1200; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 213 ATGACAGCAGCGTGTGCCCCACGAAAGCGCGAATTTGCACTGATGCTTGGCGTACTCA 272
Db 1 ATGACAGCAGCGTGTGCCCCACGAAAGCGCGAATTTGCACTGATGCTTGGCGTACTCA 60

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:50:21 ; Search time 309.514 Seconds
(without alignments)
5092.624 Million cell updates/sec

Title: US-09-883-839-1-C279
Perfect score: 2162
Sequence: 1 ggaattccgctatagcag.....gtggtttgttcctggaattc 2162

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues

Total number of hits satisfying chosen parameters: 9275266

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New:
1: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq*
4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq*
6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq*
7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq*
8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2158.4	99.8	2162	7	US-11-127-877-18
2	453.4	21.0	1423	7	US-11-136-527-2066
3	362.6	16.8	2955	7	US-11-136-527-2954
4	233	10.8	8372	7	US-11-136-527-684
5	197.8	9.1	2116	7	US-11-136-527-3819
6	194.8	9.0	1685	6	US-10-750-185-36071
7	194.8	9.0	1685	6	US-10-750-623-36071
8	187.6	8.7	1238	6	US-10-995-561-320
9	187.6	8.7	1498	6	US-10-995-561-321
10	187.6	8.7	86131	6	US-10-995-561-13298
11	177	8.2	3635	7	US-11-136-527-2101
12	172.6	8.0	1384	7	US-11-136-527-2159
13	158.8	7.3	1560	7	US-11-136-527-3742
14	158.8	7.3	1865	6	US-10-533-355-9
15	151.8	7.0	856	6	US-10-750-185-62128
16	151.8	7.0	856	6	US-10-750-623-62128
17	141.4	6.5	1224	6	US-10-750-185-40492
18	141.4	6.5	1224	6	US-10-750-623-40492
19	125.6	5.8	600	7	US-11-136-527-6162
20	112.4	5.2	3985	7	US-11-136-527-3404
21	93.4	4.3	3219	7	US-11-136-527-4059
22	93.4	4.3	3295	7	US-11-136-527-3736
23	92.6	4.3	706	6	US-10-750-185-32790

c	24	92.6	4.3	706	6	US-10-750-623-32790	Sequence 32790, A
	25	88.6	4.1	1450	7	US-11-136-527-3841	Sequence 3841, Ap
	26	85.4	4.0	1339	7	US-11-136-527-4061	Sequence 4061, Ap
	27	85.4	4.0	2580	7	US-11-136-527-3525	Sequence 3525, Ap
	28	83.2	3.8	1915	7	US-11-068-686-3	Sequence 3, Appli
	29	83.2	3.8	1945	7	US-11-127-877-27	Sequence 27, Appli
	30	82.8	3.8	2011	7	US-11-136-527-3805	Sequence 3805, Ap
	31	82.2	3.8	201	6	US-10-995-561-9095	Sequence 9095, Ap
	32	82.2	3.8	201	6	US-10-995-561-9109	Sequence 9109, Ap
	33	82.2	3.8	201	6	US-10-995-561-48688	Sequence 48688, A
	34	82.2	3.8	2156	7	US-11-136-527-3843	Sequence 3843, Ap
	35	81.8	3.8	600	6	US-10-750-185-20212	Sequence 20212, A
	36	81.8	3.8	600	6	US-10-750-623-20212	Sequence 20212, A
	37	81.2	3.8	810	6	US-10-750-185-50101	Sequence 50101, A
	38	81.2	3.8	810	6	US-10-750-623-50101	Sequence 50101, A
	39	78.4	3.6	1116	7	US-11-136-527-2638	Sequence 2638, Ap
	40	76.6	3.5	2338	6	US-10-876-787-1	Sequence 1, Appli
	41	76.6	3.5	2347	7	US-11-127-877-28	Sequence 28, Appli
	42	76.2	3.5	2214	6	US-10-995-561-196	Sequence 196, App
	43	76.2	3.5	2338	6	US-10-995-561-199	Sequence 199, App
	44	76.2	3.5	2363	6	US-10-995-561-197	Sequence 197, App
	45	76.2	3.5	2422	6	US-10-995-561-195	Sequence 195, App

ALIGNMENTS

RESULT 1

US-11-127-877-18
; Sequence 18, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Marcel
; APPLICANT: Spittaels, Koenraad F. P.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting Amyloid-Beta Protein Production
; FILE REFERENCE: P27,800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 18
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: n is a, c, g, or t
US-11-127-877-18

Query Match 99.8%; Score 2158.4; DB 7; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	GGAATTCGGCTATAGGACAGGAGATGTGATGCTCAGCTCGTCCCTCCGCTGA	60
Db	1	GGAATTCGGCTATAGGACAGGAGATGTGATGCTCAGCTCGTCCCTCCGCTGA	60
Qy	61	CGCTCTCTCTCTCTCAGCCAGGACTGGTTTCTGTGAAGAAACAGCAGGAGTGTGGCAGC	120
Db	61	CGCTCTCTCTCTCTCAGCCAGGACTGGTTTCTGTGAAGAAACAGCAGGAGTGTGGCAGC	120

121 GGCAGGAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTCTCTGGCTACCT 180
121 GGGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTCTCTGGCTACCT 180
181 CGCACAGCGGTGCCCGCGCGGTGAGTACCATGACAGCAGCGTGCCTCCACGAAACG 240
181 CGCACAGCGGTGCCCGCGCGGTGAGTACCATGACAGCAGCGTGCCTCCACGAAACG 240
241 CGAGCAATTCACATGATGCTTGGCGTACTCAAGTTGGCCCCCAGCAGCCCGCGGT 300
241 CGAGCAATTCACATGATGCTTGGCGTACTCAAGTTGGCCCCCAGCAGCCCGCGGT 300
301 CTGGGTCAACTTGTCCACTAGATGGCAACTGTCCGACCCATGCGGTCCGAAACGCA 360
301 CTGGGTCAACTTGTCCACTAGATGGCAACTGTCCGACCCATGCGGTCCGAAACGCA 360
361 CCAACCTGGCGGGGAGAGACAGCTGTGCCCTCCGACCGGCACTCCCTCCATGATCACGG 420
361 CCAACCTGGCGGGGAGAGACAGCTGTGCCCTCCGACCGGCACTCCCTCCATGATCACGG 420
421 CCATCAGGATCATGGCGCTCTACTCCATCGTGTGGGTGGGTGGGTCTTCGGAACTTC 480
421 CCATCAGGATCATGGCGCTCTACTCCATCGTGTGGGTGGGTGGGTCTTCGGAACTTC 480
481 TGGTCAATGATGATGTTGTGATGATACACCAAGATGAAGACTGCGCACCAATCTACATTT 540
481 TGGTCAATGATGATGTTGTGATGATACACCAAGATGAAGACTGCGCACCAATCTACATTT 540
541 TCAACCTTGTCTGGCAGATGCTTGGACCACTCCCTCCGACCGGCACTCCCTCCATGATTT 600
541 TCAACCTTGTCTGGCAGATGCTTGGACCACTCCCTCCGACCGGCACTCCCTCCATGATTT 600
601 ACCTAATGGAAACATGGCCATTTGGAAACCATCTTTCGAAGATGATGATTCATGATTT 660
601 ACCTAATGGAAACATGGCCATTTGGAAACCATCTTTCGAAGATGATGATTCATGATTT 660
661 ACTATAACATGTTTACAGCATATTCACCTCTGACCATGAGTGTGATCGATACATTTG 720
661 ACTATAACATGTTTACAGCATATTCACCTCTGACCATGAGTGTGATCGATACATTTG 720
721 CAGTCTGCCACCTGTCAAGGCTTGAATTCGGTACTCCCGAAATGCGCAAAATTTATCA 780
721 CAGTCTGCCACCTGTCAAGGCTTGAATTCGGTACTCCCGAAATGCGCAAAATTTATCA 780
781 ATGTCTGCAACTGGATCTCTTTCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACA 840
781 ATGTCTGCAACTGGATCTCTTTCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACA 840
841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAATCTCTCATCOAACCTGGTACT 900
841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAATCTCTCATCOAACCTGGTACT 900
901 GGGAAACCTCGTGAAGATCTGTTTTTCATCTTCGCTTCATTTATGCGAGTGCATCA 960
901 GGGAAACCTCGTGAAGATCTGTTTTTCATCTTCGCTTCATTTATGCGAGTGCATCA 960
961 TTACCGTGTCTATGATGATGATCTTGGCGCTCAAGAGTGCAGTCTCTCTGGCT 1020
961 TTACCGTGTCTATGATGATGATCTTGGCGCTCAAGAGTGCAGTCTCTCTGGCT 1020
1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGGTGGTGGCTG 1080
1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGGTGGTGGCTG 1080
1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCAATTAAGCCTTGGTTACAA 1140
1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCAATTAAGCCTTGGTTACAA 1140
1141 TCCAGAAACTAGTCTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTACAA 1200
1141 TCCAGAAACTAGTCTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTACAA 1200
1201 ACAGCTGCCTCAACCCAGTCTTTATGATTTCTGGATGAAACTTTCAAAACGATGCTTCA 1260

1201 ACAGCTGCCTCAACCCAGTCTTTATGATTTCTGATGAAACTTTCAAAACGATGCTTCA 1260
1261 GAGAGTCTGTATCCCACTCTTCCAACTTTGAGCAAAACTCCCACTCGAATTCGT 1320
1261 GAGAGTCTGTATCCCACTCTTCCAACTTTGAGCAAAACTCCCACTCGAATTCGT 1320
1321 AGAACACTAGACACCACTCCAGGCCAATACAGTGTAGTAACTAATCATCAGCTAG 1380
1321 AGAACACTAGACACCACTCCAGGCCAATACAGTGTAGTAACTAATCATCAGCTAG 1380
1381 AAAATCTGGAGCAGAAACTGCTCCGTTCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
1381 AAAATCTGGAGCAGAAACTGCTCCGTTCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
1441 CACCAAGCTTAGAAGCCCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
1441 CACCAAGCTTAGAAGCCCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
1501 CTCTAATCTCTAGGAAAGTCTTCTTTAGGTCTATCCAACTCTTCTCTCTGGCCA 1560
1501 CTCTAATCTCTAGGAAAGTCTTCTTTAGGTCTATCCAACTCTTCTCTCTGGCCA 1560
1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGAAGGAAAGGAA 1620
1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGAAGGAAAGGAA 1620
1621 TATACACACCCAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCCACTCGT 1680
1621 TATACACACCCAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCCACTCGT 1680
1681 GTATGTGAATTCAGTCAATAAAGGTGACCTTCTCTGTGAAGATTTTATTTTCAA 1740
1681 GTATGTGAATTCAGTCAATAAAGGTGACCTTCTCTGTGAAGATTTTATTTCAA 1740
1741 GCAAAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA 1800
1741 GCAAAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA 1800
1801 CATAAAGTAAATGCTACCTCATCAAGCACCTTGAATGGAGGTCAGGCTTTTTAG 1860
1801 CATAAAGTAAATGCTACCTCATCAAGCACCTTGAATGGAGGTCAGGCTTTTTAG 1860
1861 TGTGTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1861 TGTGTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATTTGTTAAAAA 1980
1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATTTGTTAAAAA 1980
1981 AATAACATCTCTTTCATCTAGCTCCATATTCGAAGGGAAGATTTAGCATGAAGGTAA 2040
1981 AATAACATCTCTTTCATCTAGCTCCATATTCGAAGGGAAGATTTAGCATGAAGGTAA 2040
2041 TCTGAAACACAGTCACTGTGCANCTGTAGAAAGTTGATTTCTCATGCACCTNCAATFCTT 2100
2041 TCTGAAACACAGTCACTGTGCANCTGTAGAAAGTTGATTTCTCATGCACCTNCAATFCTT 2100
2101 CCAAGAGTCACTCATGGGGATTTTTTCACTTTTAGGCTTTTCACTGGTGTGTTCTTGGAAAT 2160
2101 CCAAGAGTCACTCATGGGGATTTTTTCACTTTTAGGCTTTTCACTGGTGTGTTCTTGGAAAT 2160
2161 TC 2162
2161 TC 2162

RESULT 2

US-11-136-527-2066
; Sequence 2066, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:

Qy	964	CCGTGTCCTATGGACTCATGATCTTTGGCGCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCA	1023
Db	869	CTGTCTCTACAGCCTCATGATTCGACGACTTCGTGTGCCGCTCTGCTTTCAGGCTCCC	928
Qy	1024	AAGAAAAGGACAGAAATCTTCGAAGGATCACAGSATTGGTGCTGGTGGTGGCTGTGT	1083
Db	929	GGGAGAAGGACCGAAACCTCGCGGCTATCACTCGACTGGTGTGGTAGTGGTGGCTGTGT	988
Qy	1084	TCATCGTCTGTGGACTTCCCATTTACATTTACGTCATTAAGCCTTCGGTTACAATCC	1143
Db	989	TTFGGGCTGTCTGACGCGCTGTG CAGGTGTTTTCCTGGTTC AAGSACTGGGTTC CAGC	1048
Qy	1144	CAGAAACTACGTTCC CAGACTGTTTTCTTGGCACTTCTCGATTCGTCTAGGTTACACAAACA	1203
Db	1049	CAGGTAGTGAGACTGCGAGTTGCCATCCTCGCGCTTCTGCA CAGCCCTGGGCTATGTCAACA	1108
Qy	1204	GCTGCCTCMACCAGTCTTTATGCATTTCTGGATGAAACTTC AAACGATGCTTCAGAG	1263
Db	1109	GTTGTCTCAATCCCAATCTCTATGCTTTCCTGGATGAGAACTTC AAGGCTGCTTTTGAAG	1168
Qy	1264	AGTTCTGTATCCCCAACCTCTTTC AACATTTGAGCAACAAAACTCCACTCGAATTCG	1318
Db	1169	AGTTCTGTGTGCTTATCCCTGCACCGGAGATG CAGGTTTTCTGATCTGTGTGG	1223

RESULT 4

```

US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-684

```

Query Match	10.8%;	Score 233;	DB 7;	Length 8372;
Best Local Similarity	56.4%;	Prod. No. 1.4e-59;		
Matches 513;	Conservative 0;	Mismatches 315;	Indels 81;	Gaps 1;
Qy	491	TGTGATTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATATTTTCAACCTTGC	550	
Db	5100	TGTCCTCTACAGGCACACCAAGATGAAGACAGCTACCAACATTTACATATTTAATCTGGC	5159	
Qy	551	TCTGGCAGATGCCTTAGCCACCACTACCCCTCCAGAGTGTGAATTACCTAATGGG	610	
Db	5160	ACTGGCTGATACCCCTGCTGTGCTAAACACTGCCCTTCCAGGGCACACATCCTACTGGG	5219	
Qy	611	AACATGSCCAATTTGGAAACCAATCTTTTGCAGATAGTGATCTCCATAGATTAATATAACAT	670	
Db	5220	CTTCTGGCCATTTGGGAATGCACCTCTGCAAGACTGTCTATGCTATCGACTACTACAAACAT	5279	
Qy	671	GTTCCACCAAGCATATTTCACCCTCTGCACCATGAGTGTTGATCGATACATTTCCAGTCTGCCA	730	
Db	5280	GTTTACCAGCACTTTTACTCTGACCGGCATGAGCGTAGACCGCTATGTGGCTATCTGCCA	5339	
Qy	731	CCCTGTCAAGGCCCTTAGATTTCCGTACTCTCCCGGAAATGCCAAAATTATCAATGTCGTCAA	790	
Db	5340	CCCTATCCGTGCCCTTGATGTTCCGACATCCAGCAAGGCCAGCGCTGTTAATGTGGCCAT	5399	
Qy	791	CTGGATCCTCTCTTCAAGCCATTGCTCTTCGTGTAATGTTTCATGCTCAACAAAA-----	845	
Db	5400	ATGGGCCCTGCGCTTCAGTGGTTGGTGTTCCTGTGTGGCCATCATGGGTTTCAGCAAGTGGGA	5459	

Qy	846	-----	845
Db	5460	AGATGAAGTCACTGGTGGTCTCTCTCCCTGACTCATTTAGTTTCCCATGGTTCTTGCTG	5519
Qy	846	-----TACAGGCAAGTTCCATAGATTTGTACACTAACTATCTCTCATCC	889
Db	5520	GTCCCTCTGACCCATTTCTCTCTCGAGAGATCGAGTGCCTGGTGGAGATCCCTGCCCC	5579
Qy	890	AACCTGGTACTGGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCAATATGCC	949
Db	5580	TCAGGACTATTGGGGCCCTGTATTGCCATCTGCATCTCTCTTTTTCCTTCATCATCCC	5639
Qy	950	AGTGCTCATCATTTACCGTGTGCTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGCAT	1009
Db	5640	TGTGCTGATCATCTCTGTCTGCTACAGCCTCATGATTCGACGACTTCGTGGTGTCCGTCT	5699
Qy	1010	GCTCTCTGGCTCAAAAGAAAGACAGGAATCTTCAAGGATCACCAGAGTGTGCTGGT	1069
Db	5700	GCITTCAGGCTCCGGGAGAGACCGAAACCTCGCGCGTATCACCTCGACTGGTGTGGT	5759
Qy	1070	GGTGGTGGCTGTGTTCATCGTCTGTGGATCCCAATTCACATTTACGTCAATCAAAAGC	1129
Db	5760	AGTGGTGGCTGTGTGTGTGGCTGCTGGAGCCTGTGCAGGTGTGTTGTCCTGGTTCAAAG	5819
Qy	1130	CTTGGTTACAATCCGAGAACTAGTTTCCAGACTGTTTCTTGGCACTTCTGCAATTGCTCT	1189
Db	5820	ACTGGGTGTTTCAGCCAGGTAGTGAGACTGCAGTTGCCATCTCTCGCTTCTGCAAGCCCT	5879
Qy	1190	AGGTTACAAAAAGCTGCCTCAACCAAGTCCTTTTATGCAATTTCTGATGAAACTTCAA	1249
Db	5880	GGGCTATGTCAACAGTTGTCTCAATCCCATTCCTATGCTTTCTGATGAGAACTTCAA	5939
Qy	1250	ACGATGTTTTCAGAGAGTTCTGTATCCCAACCTCTTCCAACTTTGAGCAACAAACTCCAC	1309
Db	5940	GGCCTGCTTTAGAAAGTTCTGCTGTGTTTCATCCCTGCACCGGAGATGCAGGTTTCTGA	5999
Qy	1310	TCGAATTCG	1318
Db	6000	TCGTGTGCG	6008

RESULT 5

```

US-11-1336-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-1336-527-3819

```

	Query Match	9.1%	Score 197.8;	DB 7;	Length 2116;
	Best Local Similarity	53.2%;	Pred. No. 2.7e-49;		
	Matches 443;	Conservative 0;	Mismatches 387;	Indels 3;	Gaps 1;
Qy	430	TCATGGCCCTCTACTCCATCGTGTGCGTGTGGGGCTCTTCGGAACCTTCCTGTCATGT	489		
Db	504	TCAGTTCACTACTCTTGTTGCTGTGTGGGGCTGTGGGCAACACGCTCGTCATCT	563		
Qy	490	ATGTGATTGTTCAGATACACCAAGATGAAGACTGCCACCAATCTTACATTTTCAACCCCTTG	549		

Db 564 ACATCATCTCCGCTAGCCCAAGATGAAACCATCACCAACATTTACATCTCTCAACCTGG 623
Qy 550 CTCTGGCAGATGCTTACCCACAGTACCTGCGCCCTCCAGAGTGTGAATTTACCTATGG 609
Db 624 CCATCGCAGATGAATCTTTCATGTGGGGCTGCGCCCTTCTTGGCCATGAGGTGGCGCTGG 683
Qy 610 GAACATGGCCATTTTGGGAACCATCTTTGCAAGATAGTATCTCCATAGATTTACTATAA 669
Db 684 TCCACTGGCCCTTTTGGCAAGCCCATCTGCGGGTGGTCAAGTGTGGACGGTATCAAC 743
Qy 670 TGTTACACAGATATTCACCTCTGACCATGATGTTGATGATGATGATGATGATGATGATG 729
Db 744 AGTTACACAGTATCTTCTGCTGAGCGGTGATGAGCATCGACCGTTACCTGGCCGTGGTCC 803
Qy 730 ACCCTGTCAAGGCTTAGATTTCCGTACTCCCGGAATGCCAAATTTATCAATCTCTGCA 789
Db 804 ACCCCATTAAGTCAGCCAAATGGAGGAGACCCCGGACAGCCAAAGATCAACCTGGGTG 863
Qy 790 ACTGGATCTCTCTTACGCCATTTGCTTCTCTGTAATGTTTCATGGCT---ACAAACAAAT 846
Db 864 TGTGGGTGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 923
Qy 847 AAGGCAAGGTTCCATAGATTTACATTAACATTTCTCTCAATCCAACTGATGATGATGATG 906
Db 924 ACGAGTGGGTAGGAGCAGCTGCACCACTCAACTGGCCGGGGAATCCGGGGCATGGTACA 983
Qy 907 ACCTGTGAAGATCTGTGTTTTCATCTGCGCTTCATTTATGCCAGTGTCTCATCATATCCG 966
Db 984 CGGGTTTCATTTATCTATGCTTCTATCTCTGCGGTTCCTGGTACCCTCAACCATCATCTG 1043
Qy 967 TGTGTATGGATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 1026
Db 1044 TCTGTACTCTGTTTCATCATCATCAAGGTGAAGTCTCTGGATCGGAGTGGGTGCTTCCA 1103
Qy 1027 AAAAGGACAGGAATCTTCGAAGGATCACAGAGTGGTGGTGGTGGTGGTGGTGGTGGT 1086
Db 1104 AGAGGAAAAGTCAGAGAAAAGGTGACCCGAATGGTATCCATCGTGGTGGCTGTCTTCA 1163
Qy 1087 TCGTCTGTGACTGCCATTCACATTTACGTATCATTTAAAGCCTTGGTTACATCCAG 1146
Db 1164 TCTTCTGTGGCTCCCTTCTATATCTTCAATGTCTCGTGGTGTGTGGCCATCAGCC 1223
Qy 1147 AAATCTAGTTCAGAGTGTCTTCTGGCACTTCTGCAATGCTTAGTGTACAAACAGCT 1206
Db 1224 CCACCCCTGCCCTGAAGGATGTTTGAATTTGTTGGTTATCTTACCTACGCCAACAGCT 1283
Qy 1207 GCCTCAACCCAGTCTCTTTATGATTTCTGGATGAAACCTTCAACGATGCTTC 1259
Db 1284 GCGCAACCCCATCTGTACGCTTCTTGTGCGCAACTTCAAGAAAGAGCTTC 1336

RESULT 6
US-10-750-185-36071/c
; Sequence 36071, Application US/10750185
; Publication No. US200502606031
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 36071
; LENGTH: 1685

; TYPE: DNA
; ORGANISM: Bovine 1986880675545
US-10-750-185-36071
Query Match 9.0%; Score 194.8; DB 6; Length 1685;
Best Local Similarity 51.5%; Pred. No. 1.9e-48;
Matches 507; Conservative 0; Mismatches 462; Indels 15; Gaps 2;
Qy 279 CCCCCAGACCCAGCCCGGTTCTCTGGGTCAACTTGTCCACTTTAGATGCAACACTGTCC 338
Db 1482 CCCTCTCTCTAGCCCCAGCCAGGAGCTGCGGGCAAGGCGGAGCAGGAGGCGCCC 1423
Qy 339 GACCCATGCGGTCCGAACCCGCAACAACCTGGGGGGGAGAGACAGACCTGTGCCCTCCGACC 398
Db 1422 GGGCGCGGCTGCAGACGGGATGGAAGAACCGGGGCGAAACCGCTCCCAAGACGGGACC 1363
Qy 399 GGAGTCCCTCCATGATCAGGGCCATCAGATCATGSCCTCTACTCCATCGTGTGGGTG 458
Db 1362 TTGAGGAGGGCCAGGGCAGCGCTATCTCTCATCTCTTTTCATCTACTCCGTGGTGTGCTG 1303
Qy 459 GTGGGGCTCTTCGGAACCTTCTGGTTCATGTATGTGTCTCAGATACACCAAGATGAAG 518
Db 1302 GTGGGGCTCTGTGGAACTCCATGATCTACGTGATCTCTGCGTACGCCAAGATGAAG 1243
Qy 519 ACTGCCAACCAATCTACATTTTCAACCTTGTCTCTGGCAGATGCTTAGCCACAGTACC 578
Db 1242 ACGGCCAACCAATCTACATCTCACTGCGCATCGCCGATGAGCTGCTCATGCTCAGC 1183
Qy 579 CTGCGCTTCCAGAGTGTGAATTACCTAATGGGAACATGSCCATTTTGAACCATCTTTGC 638
Db 1182 GTGCGCTTCTGTGTCACCTCAATGCTTTCGCCACTGGCCCTTCGGGGGCTACTCTGC 1123
Qy 639 AAGATAGTATCTCCATAGATTTACTATAACATGTTTCCACAGCATPATTTCAACCTCTGCACC 698
Db 1122 GCGCTGTGCTAGCGTGGAGCGAGTCAACATGTTTACAGCATCTACTGTCTGACTGTG 1063
Qy 699 ATGAGTGTTCATCGATACATTTGAGTCTGCCACCTGTCTCAAGGCTTAGATTTCCGTACT 758
Db 1062 CTTAGCGTGACCGCTACGTGGCGGTGGTGCACCCCATCAAGGCGCGCACGCTACCGCGG 1003
Qy 759 CCCGAAATGCCAAATTTATCAATGTCGAACTGTCGAACTGTCCTCTCAGCCATTTGCTT 818
Db 1002 CCCACCGTGCCAAAGGTGGTGAATCTGGGCGTGTGGGTGCTGTCTGCTCGTCACTCTG 943
Qy 819 CC---TCTAATGTTTCATGGCTTACAAACAAATACAGCAAGGTTCCATAGATTTGACATA 875
Db 942 CCATCGTGTCTTCTCGCGCAGCGCGCCAAACAGCGACGCGTGGCTGCAACATG 883
Qy 876 ACATTTCTCATCCAACTCGTACTGCGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTC 935
Db 882 CTCATGCCGAGCGCGCCAGCGCTGGCTGGTGGCTTCTGGTGTGTACACTTTCTCTCATG 823
Qy 936 GCCTTCATTTAGCCAGTGTCTCATATTACCGTGTGCTATGACATGATGATGATGATGATG 995
Db 822 GGCTTCTGTGTCGCCGTCCGGGCGCATCTGTCTGTGTACGTCGTCATCATCGCCAAATG 763
Qy 996 AAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAAGACAGCAAGATCTTTCGAAGGATCACC 1055
Db 762 CGCATGTGGCCCTCAAGGCGCGCTGCAGCAGCGCAAGCGCTCGGAGCGCAAGATCACC 703
Qy 1056 AGGATGT 1115
Db 702 CTGATGT 643
Qy 1116 GTCATCAATTAAGCCCTTGGT 1175
Db 642 CAGCTAGTCAACGTGTTTCGGGAGCAGGACGACGCCACGGTGA-----GCCAG 595
Qy 1176 TTCTGCAATTTGCTTAGGTTCACAAAACAGCTGCTCAACCCAGTCTTTTATGCAATTTCTG 1235
Db 594 CTGTGGTTCATCTCGGTTCAGCCCAACAGCTGCGCCAAACCCCTCTCTACGGCTTCCTT 535
Qy 1236 GATGAAAACCTTCAAAACGATGCTTC 1259


```
Qy 724 TCTGCCACCTGTCAAGCCCTTAGATTTCCGTACTCTCCCGAATGCCCCAAATATATCAATG 783
Db 514 TGTGTACCCCTCTCGCGCGGCGACCTACCGCGGCGCCAGGTGGCCAAAGCTCATCAACC 573
Qy 784 TCTGCAACTGGATCCTCTCTTTACGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAAACA 843
Db 574 TGGCGGTGGCTGGCATCCCTGTTGGTCACTCTCTCCCATCGCCATCTTCGACAGACCA 633
Qy 844 AATACAGGCAAGGTTCCATGATGTAACATACTCTCATCCCAACCTGGTACTGGG 903
Db 634 GACCGGCTCGCGGCGGCGAGCCCGTGGCTGCAACCTGCAAGTGCCACACCCGCGCTGGT 693
Qy 904 ABAACCTCGTGAAGATCTGTTTTCATCTTCGCTTTCATTTATGCAAGTGTCTCATCATTA 963
Db 694 CGGCAGTTCGTTGGTCTACACTTTCTGCTGGGCTTCTGCTGCCGCTGCTGGCCATTG 753
Qy 964 CCGTGTCTATGGAAGTATCTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCA 1023
Db 754 GYCTGTGCTACCTGCTCATCGTGGCAAGATGCGCGCGTGGCCCTGYGCMKGGCTGGC 813
Qy 1024 AAGAAAGGACAGAAATCTTGAAGGATACCCAGGATGGTGGTGGTGGTGGTGGTGGT 1083
Db 814 AGCAGCGCAGGCGCTCGAGAGAGAAATCACAGGCTGGTGGTGGTGGTGGTGGTGGT 873
Qy 1084 TCATGCTGTGCTGACTCCCATTCACATTTACGTATCATTTAAGCCTTGGTTACAATCC 1143
Db 874 TTGTGCTGTGCTGATGCTTTTACGTGGTGGAGCTGCTGAACCTCTGTGTGACCAACC 933
Qy 1144 CAGAACTACCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTTACAAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CAGGTGCTCCCTTATCCTTAGCTATGCCAAYA 981
Qy 1204 GCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAAGCATGCTTC 1259
Db 982 GCTGGCCAAACCCVATTCTCTATGGYTTCTCTCCGACAACTTCCGCGGATCTTC 1037

RESULT 9
US-10-995-561-320
; Sequence 320, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 320
; LENGTH: 1498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-320

Query Match      8.7%; Score 187.6; DB 6; Length 1498;
Best Local Similarity 51.9%; Pred. No. 2.7e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

Qy 424 TCAGATCATGGCCCTTACTTCATCTCGTGGTGGGCTCTTCGGAACTTCCTGG 483
Db 214 TCGTATCCAGTGCATCTACCGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 273
Qy 484 TCATGATGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTCA 543
Db 274 TCATCTCGTATGCTTCGCTACGCAAGATGAAGACCGCTACCAACATCTACTGCTCA 333
Qy 544 ACCTTGCTCTGGCAGATGCCTTAGCCACAGTACCTGCTGCCCTTCCAGAGTGAATACC 603
Db 334 ACCTGGCGTAGCCGACGAGCTCTTCATGCTGAGCGTGGCTTCTGTGGCCCTCGTGGCGC 393
```

```
Qy 604 TAATGGAAACATGSCCATTTGGAAACCATCTTTTGCAGAGATAGTGATCTCCATAGATTACT 663
Db 394 CCCTGCGCCACTGGCCCTTCGGCTCCGTGTGCGCGCGGTGCTCAGCGTCCAGCGCC 453
Qy 664 ATAACATGTTTACACAGATATTCACCTCTGACCATGAGTGTGATCGATACATTCGAG 723
Db 454 TCAACATGTTTACACAGCGTCTTCTGTCTACCGTGTGACGCGTGGACCGCTAGCTGGCGC 513
Qy 724 TCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCTCCCGAATGCCCCAAATATATCAATG 783
Db 514 TGTGTACCCCTCTGCGGCGGCGACCTACCGGCGGCGCCAGCGTGGCCAAAGCTCATCAACC 573
Qy 784 TCTGCAACTGGATTCCTCTTTACGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAAACA 843
Db 574 TGGCGGTGGTGGCTGGCATCCCTGTTGGTCACTCTCCCATCGCCATCTTCGACAGACCA 633
Qy 844 AATACAGGCAAGGTTCCATGATGTAACATACTCTCATCCCAACCTGGTACTGGG 903
Db 634 GACCGGCTCGCGGCGGCGAGCCCGTGGCTTGCACCTGCAAGTGCCACACCCGCGCTGGT 693
Qy 904 ABAACCTCGTGAAGATCTGTTTTCATCTTCGCTTTCATTTATGCAAGTGTCTCATCATTA 963
Db 694 CGGCAGTTCGTTGGTCTACACTTTCTGCTGGGCTTCTGCTGCCGCTGCTGGCCATTG 753
Qy 964 CCGTGTCTATGGAAGTATCTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCA 1023
Db 754 GYCTGTGCTACCTGCTCATCGTGGCAAGATGCGCGCGTGGCCCTGYGCMKGGCTGGC 813
Qy 1024 AAGAAAGGACAGAAATCTTGAAGGATACCCAGGATGGTGGTGGTGGTGGTGGTGGT 1083
Db 814 AGCAGCGCAGGCGCTCGAGAGAGAAATCACAGGCTGGTGGTGGTGGTGGTGGTGGT 873
Qy 1084 TCATGCTGTGCTGACTCCCATTCACATTTACGTATCATTTAAGCCTTGGTTACAATCC 1143
Db 874 TTGTGCTGTGCTGATGCTTTTACGTGGTGGAGCTGCTGAACCTCTGTGTGACCAACC 933
Qy 1144 CAGAACTACCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTTACAAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CAGGTGCTCCCTTATCCTTAGCTATGCCAAYA 981
Qy 1204 GCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAAGCATGCTTC 1259
Db 982 GCTGGCCAAACCCVATTCTCTATGGYTTCTCTCCGACAACTTCCGCGGATCTTC 1037

RESULT 10
US-10-995-561-13298
; Sequence 13298, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13298
; LENGTH: 86131
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13298

Query Match      8.7%; Score 187.6; DB 6; Length 86131;
Best Local Similarity 51.9%; Pred. No. 5.4e-45;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

Qy 424 TCAGATCATGGCCCTTACTTCATCTCGTGGTGGGCTCTTCGGAACTTCCTGG 483
Db 6215 TCGCTATCCAGTGCATCTACCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 6274
```


Db 1001 TTGTGCTAGCTGGATGCAATCTATAGTAGTGAGCTTCTGAATCTGTTTGTCAACGACC 1060
QY 1144 CAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATTCGTCTAGGTTACACAAACA 1203
Db 1061 TCGATGCCATGTCACACCATGTCTCCCTCATCTCAGCTATGCC-----AACA 1108
QY 1204 GCTGCGCTCAACCCAGTCCCTTATGCAATTTCTGGATGAAACTTCAACGATGCTTC 1259
Db 1109 GCTGTGCCAACCCGATTCCTATAGGTTTCTCTCAGACAACTTCGACGCTCTTTC 1164
RESULT 14
US-10-533-355-9
; Sequence 9, Application US/10533355
; Publication No. US2005027040A1
; GENERAL INFORMATION:
; APPLICANT: University of Medicine and Dentistry of New Jersey
; APPLICANT: Black, Ira B.
; TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
; FILE REFERENCE: UMD-0016
; CURRENT APPLICATION NUMBER: US/10/533,355
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: US 60/422,986
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1865
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-533-355-9

Query Match 7.3%; Score 158.8; DB 6; Length 1865;
Best Local Similarity 50.5%; Pred. No. 1.9e-37;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;
QY 424 TCACGATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTTTCGGAACTTCCTCG 483
Db 189 TAACATCCAGTCATCTATGCGCTCGTGTCTGTGGGCTCGGTAGGAACGCCCTGG 248
QY 484 TCATGTATGTGATGTGCAGATACCAAGATGAAGACTGCGACCAACATCTACATTTCA 543
Db 249 TCATATTCGTGATCTTACGCTATGCCAAATGAGACAGCCACCAATCTACCTGCTCA 308
QY 544 ACCTTGTCTGGCAGATGCTTAGCCACCAGTACCTGCTGCGCTTCCAGAGTGGAATACC 603
Db 309 ACCTGCGCGTGGCTGATGAGCTTTCATGCTCAGTGTGCCATTTGTGGCTCGCGCGCTG 368
QY 604 TAATGGAACTGGCCATTTGGAACTCCTTTGGCAAGATAGTATCCATGATTAATCT 663
Db 369 CCTGGCGCACTGGCCGTTTCGGGGCGGTGCTGTGCGCGCAGTGCTTAGTGTGGAGCGCC 428
QY 664 ATAACTATGTTACACAGCATATTCACCCCTCTGCAACATGAGTGTGATCGATACATTCGAC 723
Db 429 TTAACATGTTACAGATGCTTCTGCTCAGCTGCTCAGCTGCTGATGCTATGTGGCTG 488
QY 724 TCTGCCACCTGTCAGAGGCTTAGATTTCCGTAATCCCGAAATGCAAAATATCAATG 783
Db 489 TAGTGACCCCTCTGCGAGCTGCCACCTACCGGGGGCCAGCGTGGCCAAAGCTAATCAACC 548
QY 784 TCTGCAACTGGATCTCTCTTACAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACACAA 843
Db 549 TGGGAGTGTGGCTAGCATCTTCTGCTCACCCTGCCCATCGCAGTCTTGGCTGACACTA 608
QY 844 AATACAGGCAAGGTTCCATGATTTGTACACTAATCTCTCATCAACCTGATCTGGG 903
Db 609 GGCAGCTGTGGGGGTGAGGAGTAGTTCGAACTGCACTGGCCCTCACCCGCCCTGTT 668
QY 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTTAGCCAGTGTCTCATTTA 963
Db 669 CTCAGTCTTTGTGATCTATACCTTTTGTGGGCTTCTCTACTCCCGGTTCTGGCTATCG 728

QY 964 CCGTGTCTATGAGCTGATGATCTTTGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 729 GATTATGTTACCTGCTTATCGTGGGCAAGATGCGTGTCTGCGGCTGGCTGGC 788
QY 1024 AAGAAAAGACAGGAATCTTGAAGATCACACAGATGCTGTGTGGTGGTGGTGTGT 1083
Db 789 AACAAACGGAGCGCTCAGAGAAGATCACTAGGCTCGTGTCTAAATGGTGGTGTGTCT 848
QY 1084 TCATCGTCTGTGGTGGTCCCATTTACATTTAGCTCATATAAAGCTTTGGTTACAATCC 1143
Db 849 TTGTGCTATGTGGATGCCATTTCTATGTAGTGACGCTTCTGAATCTGTTTGCACAGCC 908
QY 1144 CAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGGTTACACAAACA 1203
Db 909 TCGATGCCACTGTCAACCATGTGTCCCTCATCTCAGCTATGCC-----AACA 956
QY 1204 GCTGCTCAACCCAGTCCCTTATGCAATTTCTGGATGAAACTTCAACGATGCTTC 1259
Db 957 GCTGTGCCAACCCGATTCCTATGTTTCTCTCAGACAACTTCGACGCTCTTTC 1012

RESULT 15

US-10-750-185-62128/c
; Sequence 62128, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR IMPROVING BOVINE TRAITS
; FILE REFERENCE: MM11100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62128
; LENGTH: 856
; TYPE: DNA
; ORGANISM: Bovine 19866881260208
US-10-750-185-62128

Query Match 7.0%; Score 151.8; DB 6; Length 856;
Best Local Similarity 93.0%; Pred. No. 1.4e-35;
Matches 159; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 1209 CTCACACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTCAGAGATTTC 1268
Db 856 CTGAACCCCGTCTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTCAGAGATTTC 797
QY 1269 TGTATCCCAACTTCTCCACCAITGAGCAGCAAACTCCACTCGAATTCGTCAGAACACT 1328
Db 796 TGTATCCCAACTTCTCCACCAITGAGCAGCAAACTCCACTCGAATTCGTCAGAACACT 737
QY 1329 AGAGACCAACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTA 1379
Db 736 AGAGACCAACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTA 686

Search completed: January 9, 2006, 15:42:34
Job time : 311.514 secs

Db 121 GCGAAAGGAGGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGCTACCT 180
Qy 181 CGCAGACGGTCCCGCGCGCGTCACTAGTACCATGGACAGAGCGTGCCTCCACGAAACG 240
Db 181 CGCAGACGGTCCCGCGCGCGTCACTAGTACCATGGACAGAGCGTGCCTCCACGAAACG 240
Qy 241 CGAGCAATGCTGATGCTGCTGGCGTACTCAAGTTGCTCCCGACGACCCAGCCCGGTT 300
Db 241 CGAGCAATGCTGATGCTGCTGGCGTACTCAAGTTGCTCCCGACGACCCAGCCCGGTT 300
Qy 301 CTGGGTCAACTTGTCCCACTTAGATGGCAACTGACCGACCATGCGGTCCGAAACCGCA 360
Db 301 CTGGGTCAACTTGTCCCACTTAGATGGCAACTGACCGACCATGCGGTCCGAAACCGCA 360
Qy 361 CCAACCTGGCGGGGAGAGACGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAACCTGGCGGGGAGAGACGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGAAACTTCC 480
Db 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGAAACTTCC 480
Qy 481 TGGTCAATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCT 540
Db 481 TGGTCAATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCT 540
Qy 541 TCAACCTGCTCTGCGCAGATGCTTAGCCACCAAGTGAAGTGCACCAACATCTACATTT 600
Db 541 TCAACCTGCTCTGCGCAGATGCTTAGCCACCAAGTGAAGTGCACCAACATCTACATTT 600
Qy 601 ACTAATGGGAACATGGCCATTTGGAACCATCTTGTGGAAGATAGTATCTCCATAGATT 660
Db 601 ACTAATGGGAACATGGCCATTTGGAACCATCTTGTGGAAGATAGTATCTCCATAGATT 660
Qy 661 ACTATAACATGTTCAACAGCATTTCAACCTCTGACCATGATGTTGATCGATACATTG 720
Db 661 ACTATAACATGTTCAACAGCATTTCAACCTCTGACCATGATGTTGATCGATACATTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCCCGAAATGCAAAATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCCCGAAATGCAAAATATCA 780
Qy 781 ATGTCTGCAACTGGATCTCTTTCAGCCATTTGATGCTGATGCTGATGCTGATGCTGATGCT 840
Db 781 ATGTCTGCAACTGGATCTCTTTCAGCCATTTGATGCTGATGCTGATGCTGATGCTGATGCT 840
Qy 841 CAAATACAGGCAAGGTTCCATAGATTGTACATCACTTCTCATCCAACTGGTACT 900
Db 841 CAAATACAGGCAAGGTTCCATAGATTGTACATCACTTCTCATCCAACTGGTACT 900
Qy 901 GGGAAACCTCGTGAAAGATCTGTGTTTTCATCTGCGCTTCATTTAGCCAGTGCTCATCA 960
Db 901 GGGAAACCTCGTGAAAGATCTGTGTTTTCATCTGCGCTTCATTTAGCCAGTGCTCATCA 960
Qy 961 TTACCGTGTCTATGACATGATCTTGGGCTCAAGAGTGCAGCATGCTCTGCGCT 1020
Db 961 TTACCGTGTCTATGACATGATCTTGGGCTCAAGAGTGCAGCATGCTCTGCGCT 1020
Qy 1021 CAAAGAAAGGACAGGAATCTTCGAAAGGATCACCAGGATGCTGCTGGTGGTGGCTG 1080
Db 1021 CAAAGAAAGGACAGGAATCTTCGAAAGGATCACCAGGATGCTGCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTAAGTCAATTAAGGCTTGGTGGTGGTGGT 1140
Db 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTAAGTCAATTAAGGCTTGGTGGTGGTGGT 1140
Qy 1141 TCCAGAAACTAGTCTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTACACAA 1200
Db 1141 TCCAGAAACTAGTCTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTACACAA 1200
Qy 1201 ACAGCTGCTCAACCCAGTCTTATGCAATTTCTGGATGAAACTTCAACAGATGTTCA 1260
Db 1201 ACAGCTGCTCAACCCAGTCTTATGCAATTTCTGGATGAAACTTCAACAGATGTTCA 1260

Qy 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTTGACCAACAAACCTCCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTTGACCAACAAACCTCCCACTCGAATTCGTC 1320
Qy 1321 AGAACACTAGAGACCAACCCCTCCACGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACCAACCCCTCCACGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAAGCAGAAAACCTGCTCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAAGCAGAAAACCTGCTCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAGCCACCATGATGTTGGAGCAGGTTGCTTCAAGAAATGTTAGGAGG 1500
Db 1441 CACCAAGCTTAGAGCCACCATGATGTTGGAGCAGGTTGCTTCAAGAAATGTTAGGAGG 1500
Qy 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA 1560
Db 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAAGGAAAGGAA 1620
Db 1561 CTCTGCTCTGACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAAGGAAAGGAA 1620
Qy 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
Db 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
Qy 1681 GTATGTGAATTTGAAGTCTATATAAGGTGACCTTCTGTCTGTGAAGATTTTATTTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTCTATATAAGGTGACCTTCTGTCTGTGAAGATTTTATTTCAA 1740
Qy 1741 GCAAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACCGTAGTAAACA 1800
Db 1741 GCAAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACCGTAGTAAACA 1800
Qy 1801 CATAAAGTAAATGCTTACCTCTGATCABAAGCACTTTGAATGGAGGTCCGAGTCTTTTAG 1860
Db 1801 CATAAAGTAAATGCTTACCTCTGATCABAAGCACTTTGAATGGAGGTCCGAGTCTTTTAG 1860
Qy 1861 TGTTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
Db 1861 TGTTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATGTTTAAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATGTTTAAAAAA 1980
Qy 1981 AATAACATCTCTTTTCTAGCTCCATTAATTCGAAGGGAAGAGATTAGCATGAAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCTAGCTCCATTAATTCGAAGGGAAGAGATTAGCATGAAAGGTAA 2040
Qy 2041 TCTGAAACACAGTCACTGTCACTGTAGAAAGGTGATTTCTCATGCACTNCAATACATT 2100
Db 2041 TCTGAAACACAGTCACTGTCACTGTAGAAAGGTGATTTCTCATGCACTNCAATACATT 2100
Qy 2101 CCAAGAGTCACTATGAGGGAATTTTTCATTTTAGGCTTTAGGCTTTGTTCTGCTGGAAT 2160
Db 2101 CCAAGAGTCACTATGAGGGAATTTTTCATTTTAGGCTTTAGGCTTTGTTCTGCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 2
US-09-113-426-1
; Sequence 1, Application US/09113426
; Patent No. 6337207
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S

; APPLICANT: Yu, Lei
; APPLICANT: Tischfield, Jay A.
; TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THERON
; FILE REFERENCE: 600-1-226
; CURRENT APPLICATION NUMBER: US/09/113,426
; CURRENT FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)
; OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
; US-09-113-426-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGCAGAGGAGAATGTCTGATGCTCAGCTCGGTCCCTCCGCTGA 60
DB 1 GGAATTCGGCTATAGGCAGAGGAGAATGTCTGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTGCTCAGCCAGGAGTGTCTGTAAGAACACAGAGAGCTGGCAGC 120
DB 61 CGCTCCTCTGCTCAGCCAGGAGTGTCTGTAAGAACACAGAGAGCTGGCAGC 120
QY 121 GGGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGCTACCT 180
DB 121 GGGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGCTACCT 180
QY 181 CGCACAGCGGTGCGCGCGCGCGCTCAGTACCATGGAACAGCAGCGCTGCCGCCACGAA 240
DB 181 CGCACAGCGGTGCGCGCGCGCGCTCAGTACCATGGAACAGCAGCGCTGCCGCCACGAA 240
QY 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCGCGCGCGGT 300
DB 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCGCGCGCGGT 300
QY 301 CCTGGTCACTTCTCCACCTTAGATGGCAACCTGACCGACCCATGCGGTCCGAAACGCA 360
DB 301 CCTGGTCACTTCTCCACCTTAGATGGCAACCTGACCGACCCATGCGGTCCGAAACGCA 360
QY 361 CCAACCTGGGCGGAGACAGCCTTGCTCCCTCCGACCGCGCAGTCCCTCCATGATCAGG 420
DB 361 CCAACCTGGGCGGAGACAGCCTTGCTCCCTCCGACCGCGCAGTCCCTCCATGATCAGG 420
QY 421 CCATCAGCATCATGGCCCTCTACTCCATCGTGTGGGTGGGTGGGTGGGTGGGTGGGT 480
DB 421 CCATCAGCATCATGGCCCTCTACTCCATCGTGTGGGTGGGTGGGTGGGTGGGTGGGT 480
QY 481 TGGTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
DB 481 TGGTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
QY 541 TCAACCTTGCTTGGCAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAAT 600
DB 541 TCAACCTTGCTTGGCAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATGATGATGATGATGAT 660
DB 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATGATGATGATGATGAT 660
QY 661 ACTATAACATGTTTACCAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTG 720

DB 661 ACTATAACATGTTTACCAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATATCA 780
DB 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATATCA 780
QY 781 ATGTCTGCAACCTGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTTATGGCTACAA 840
DB 781 ATGTCTGCAACCTGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTTATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTTGATACATTAACATTTCTCTCAACCTGGTACT 900
DB 841 CAAAATACAGGCAAGGTTCCATAGATTTGATACATTAACATTTCTCTCAACCTGGTACT 900
QY 901 GGGGAAACCTCTGTAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCCAGTGTCTATCA 960
DB 901 GGGGAAACCTCTGTAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCCAGTGTCTATCA 960
QY 961 TTACCGTGTCTATGGAATGATCTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
DB 961 TTACCGTGTCTATGGAATGATCTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CAAAAGAAAGGACAGGAATCTTCGAAGATCACAGGATGGTGTGGTGGTGGTGGTGGTGG 1080
DB 1021 CAAAAGAAAGGACAGGAATCTTCGAAGATCACAGGATGGTGTGGTGGTGGTGGTGGTGG 1080
QY 1081 TGTTCATCTGCTCTGAGCTCCCATTTACATTTACGTCATCATTTAAAGCCTTGGTTACAA 1140
DB 1081 TGTTCATCTGCTCTGAGCTCCCATTTACATTTACGTCATCATTTAAAGCCTTGGTTACAA 1140
QY 1141 TCCAGAAACCTAGTCTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
DB 1141 TCCAGAAACCTAGTCTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
QY 1201 ACAGTCTCTAACCCHGCTCTTTATGCAATTTCTGATGAAACTTCAAGCATGCTTCA 1260
DB 1201 ACAGTCTCTAACCCHGCTCTTTATGCAATTTCTGATGAAACTTCAAGCATGCTTCA 1260
QY 1261 GAGAGTCTCTATCCCAACCTCTTCCAACTTGGAGCAACAACTTCAAGCATGCTTCA 1320
DB 1261 GAGAGTCTCTATCCCAACCTCTTCCAACTTGGAGCAACAACTTCAAGCATGCTTCA 1320
QY 1321 AGAACACTAGAGACCAACCTTCCACGCGCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
DB 1321 AGAACACTAGAGACCAACCTTCCACGCGCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCGCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
DB 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCGCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATGTTGTAAGAGCAGGTGCTTCAAGAACTGTAGGAGG 1500
DB 1441 CACCAAGCTTAGAAGCCACCATGTTGTAAGAGCAGGTGCTTCAAGAACTGTAGGAGG 1500
QY 1501 CTCTAATTTCTTAGGAAAGTGCCTTCTTTAGGTTCATCCAACTCTTTCTCTCTGGCCA 1560
DB 1501 CTCTAATTTCTTAGGAAAGTGCCTTCTTTAGGTTCATCCAACTCTTTCTCTCTGGCCA 1560
QY 1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGAGAAAGGAA 1620
DB 1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGAGAAAGGAA 1620
QY 1621 TATACACACCGGAGGTCCAGTTTGTGCAAGACCCAGTGGAAACCAACCCATCGTG 1680
DB 1621 TATACACACCGGAGGTCCAGTTTGTGCAAGACCCAGTGGAAACCAACCCATCGTG 1680
QY 1681 GTATGCAATTTGAAGTCACTATAAAGTGCACCTTCTGTCTGTAAAGATTTTATTTTCAA 1740
DB 1681 GTATGCAATTTGAAGTCACTATAAAGTGCACCTTCTGTCTGTAAAGATTTTATTTCAA 1740
QY 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACCGTGTAGTAA 1800

Db 1741 GCBAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTACCCGTAGTAACA 1800
QY 1801 CATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCCGAGTCCTTTTAG 1860
Db 1801 CATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCCGAGTCCTTTTAG 1860
QY 1861 TGTGTTTTGCAAGGGAATGAATCCATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTGTTTTGCAAGGGAATGAATCCATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCAITTTTCCACCTCCATTTCTTTGGTTTGTATGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCAITTTTCCACCTCCATTTCTTTGGTTTGTATGTTTAAAAA 1980
QY 1981 AATAACATCTTTTCACTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTTTTCACTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
QY 2041 TCTGAACACAGTCATGTCANCTGTAGAAAGTTGATTCTCATGCACTNCAATACATT 2100
Db 2041 TCTGAACACAGTCATGTCANCTGTAGAAAGTTGATTCTCATGCACTNCAATACATT 2100
QY 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTCTTGGAT 2160
Db 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTCTTGGAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 3

US-09-016-434-1379
; Sequence 1379, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1379:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2162 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 94S2072
US-09-016-434-1379
Query Match
Best Local Similarity 99.8%; Score 2158.4; DB 3; Length 2162;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGGCTATAGGAGAGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGGCTATAGGAGAGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTCTGCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
Db 61 CGCTCCTCTCTGCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
QY 121 GGCAGAAAGGAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTTCTGGGTACCT 180
Db 121 GGCAGAAAGGAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTTCTGGGTACCT 180
QY 181 CGCAGCGGTGCCCCCGGCGCTCAGTACCATGGAAGAGCGCTGCCCCCAGCAACG 240
Db 181 CGCAGCGGTGCCCCCGGCGCTCAGTACCATGGAAGAGCGCTGCCCCCAGCAACG 240
QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCGGTT 300
QY 301 CCTGGGTCAAATCTGTCCCACTTAGATGGCAACTGACCGACCCATCGCGTCCGAAACCGCA 360
Db 301 CCTGGGTCAAATCTGTCCCACTTAGATGGCAACTGACCGACCCATCGCGTCCGAAACCGCA 360
QY 361 CCAACCTGGGCGGAGAGACAGCTGTGCGCTCCGACCGGAGTCCCTCCATGATCACGG 420
Db 361 CCAACCTGGGCGGAGAGACAGCTGTGCGCTCCGACCGGAGTCCCTCCATGATCACGG 420
QY 421 CCATCAGATCATGCGCCCTCTACTCATGCTGTGCGTGGTGGGCTCTTCGGAACCTCC 480
Db 421 CCATCAGATCATGCGCCCTCTACTCATGCTGTGCGTGGTGGGCTCTTCGGAACCTCC 480
QY 481 TGGTCATGTATCTGATTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCGCTTCCAGAGTGTGAATT 600
Db 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCGCTTCCAGAGTGTGAATT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCCATAGATT 660
QY 661 ACTATAACATGTTTCAACAGCATATTTCACCTCTGCAACCATGAGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTCAACAGCATATTTCACCTCTGCAACCATGAGTGTGATCGATACATTG 720
QY 721 CAGTCTGCCACCTGTCAAGGCGCTTAGATTTCGGTACTCCCGAAATGCGAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCGCTTAGATTTCGGTACTCCCGAAATGCGAAATATATCA 780
QY 781 ATGTCGTGAACCTGGATCTCTCTTCCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
Db 781 ATGTCGTGAACCTGGATCTCTCTTCCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAATCTCTCATCAACCTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAATCTCTCATCAACCTGGTACT 900
QY 901 GGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTCGCTTCATTTATGCCAGTCTCATCA 960
Db 901 GGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTCGCTTCATTTATGCCAGTCTCATCA 960

Qy 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCGCGCATGCTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCGCGCATGCTCTCTGGCT 1020
Qy 1021 CCAAGAAAAGGACAGGAATCTTCCAAAGGATCACAGGATGGTCTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAAGGACAGGAATCTTCCAAAGGATCACAGGATGGTCTGGTGGTGGCTG 1080
Qy 1081 TGTTTCATGCTGTCTGGACTCCCATTCACATTTACGTCATCAATTAAGAGCTTTGGTTACAA 1140
Db 1081 TGTTTCATGCTGTCTGGACTCCCATTCACATTTACGTCATCAATTAAGAGCTTTGGTTACAA 1140
Qy 1141 TCCAGAAACTACGTTCCAGACTCTTCTTGGCACTTCTGATGCTCTAGGTTACAA 1200
Db 1141 TCCAGAAACTACGTTCCAGACTCTTCTTGGCACTTCTGATGCTCTAGGTTACAA 1200
Qy 1201 ACAGTGCCTCAACCCAGTCTCTTATGCAATTTCTGATGAAACTTCAAAAGATGCTTCA 1260
Db 1201 ACAGTGCCTCAACCCAGTCTCTTATGCAATTTCTGATGAAACTTCAAAAGATGCTTCA 1260
Qy 1261 GAGAGTCTGTATCCCAACTCTTCCAAACATTTAGGAAACAAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTCTGTATCCCAACTCTTCCAAACATTTAGGAAACAAACTCCACTCGAATTCGTC 1320
Qy 1321 AGAACATAGAGACACCCCTCCAGCGCCCAATACAGTGGATAGAACTAAATCATCAGCTAG 1380
Db 1321 AGAACATAGAGACACCCCTCCAGCGCCCAATACAGTGGATAGAACTAAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAAACTCTCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAACTCTCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGAGG 1500
Qy 1501 CTCTAATCTCTAGGAAGTCCCTACTTTTAGTGTATCCCACTTCTCTCTCGGCCA 1560
Db 1501 CTCTAATCTCTAGGAAGTCCCTACTTTTAGTGTATCCCACTTCTCTCTCGGCCA 1560
Qy 1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAGTAAGTGGAGCATTTGGGAAGAAAGGAA 1620
Db 1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAGTAAGTGGAGCATTTGGGAAGAAAGGAA 1620
Qy 1621 TATACCAACCGAGAGTCCAGTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Db 1621 TATACCAACCGAGAGTCCAGTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Qy 1681 GTATGTGNAATGAAGTCATATAAAGGTGACCCCTTCTGCTGTGAAGATTTATTTTCAA 1740
Db 1681 GTATGTGNAATGAAGTCATATAAAGGTGACCCCTTCTGCTGTGAAGATTTATTTTCAA 1740
Qy 1741 GCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTAGTAACA 1800
Db 1741 GCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTAGTAACA 1800
Qy 1801 CATAAAGTAAATGCTTCTGATCAAGACACCTTGAATGAAGTGGAGTTCGAGTCTTTTATAG 1860
Db 1801 CATAAAGTAAATGCTTCTGATCAAGACACCTTGAATGAAGTGGAGTTCGAGTCTTTTATAG 1860
Qy 1861 TGTTTTGCAAGGNAATGAATCCATTTCTATTTTGAACCTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTGCAAGGNAATGAATCCATTTCTATTTTGAACCTTTTAACTTCAACTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAAA 1980
Qy 1981 AATAACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040

Qy 2041 TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAAAATCTT 2100
Db 2041 TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAAAATCTT 2100
Qy 2101 CCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTACGTTGTTCTCTCGAAT 2160
Db 2101 CCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTACGTTGTTCTCTCGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 4
US-09-355-709C-7
; Sequence 7, Application US/09355709C
; Patent No. 6538120
; GENERAL INFORMATION:
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...
; FILE REFERENCE: 101195-15
; CURRENT APPLICATION NUMBER: US/09/355,709C
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: DE 197 03 925.1
; PRIOR FILING DATE: 1997-02-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic
; OTHER INFORMATION: Clone
; OTHER INFORMATION: cDNA encoding human opiate receptor
; NAME/KEY: unsure
; LOCATION: (2063)
; OTHER INFORMATION: n = unknown
; NAME/KEY: unsure
; LOCATION: (2091)
; OTHER INFORMATION: n = unknown
; US-09-355-709C-7

Query Match 99.4%; Score 2148.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2152; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 9 GGCCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTC 68
Db 9 GGCCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTC 68
Qy 69 TCTGTCTCAGCCAGGACTGTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
Db 69 TCTGTCTCAGCCAGGACTGTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
Qy 129 GAAGCGGCTCAGGCGCTTTGGAAACCCGAAAGTCTCTCGGTGCTCTCTGGCTACCTCGCACAGC 188
Db 129 GAAGCGGCTCAGGCGCTTTGGAAACCCGAAAGTCTCTCGGTGCTCTCTGGCTACCTCGCACAGC 188
Qy 189 GGTGCCCGCCGCGCTCAGTACCATGGACAGCAGCGTGCCTCCCAACGACCCGACGCAAT 248
Db 189 GGTGCCCGCCGCGCTCAGTACCATGGACAGCAGCGTGCCTCCCAACGACCCGACGCAAT 248
Qy 249 TGCATGATGCTTGGGCTACTCAAGTTGCTCCCGACGACCCCGGTTCTTGGGTC 308
Db 249 TGCATGATGCTTGGGCTACTCAAGTTGCTCCCGACGACCCCGGTTCTTGGGTC 308
Qy 309 AACTTGTCCCACTTTAGATGGCAACTGACCGACCCATGCGGTCCGAAACCGCAACCACTG 368
Db 309 AACTTGTCCCACTTTAGATGGCAACTGTCGACCCATGCGGTCCGAAACCGCAACCACTG 368
Qy 369 GCGCGGAGAGACAGCCTGTGCTCCCTCCGACCGGAGTCCCTCCATGATCAGGCGCATCAGC 428
Db 369 GCGCGGAGAGACAGCCTGTGCTCCCTCCGACCGGAGTCCCTCCATGATCAGGCGCATCAGC 428


```
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1173-449P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2160 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..2160
; OTHER INFORMATION: /label= cDNA
; OTHER INFORMATION: /note= "cDNA encoding human mu opiate receptor"
; US-08-188-275A-1

Query Match 98.8%; Score 2136.4; DB 3; Length 2160;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2159; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

Qy 1 GGAATCCGGCTATAGGACAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCGCCTGA 60
Db 1 GGAATCCGGCTATAGGACAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCGCCTGA 60

Qy 61 CGCTCCTCTGCTCAGCCAGGACTGGTTCTCTAGAAACACAGCAGAGCTGGGCAGC 120
Db 61 CGCTCCTCTGCTCAGCCAGGACTGGTTCTCTAGAAACACAGCAGAGCTGGGCAGC 120

Qy 121 GGCGAAAGGACGGCTGAGCGCTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT 180
Db 121 GGCGAAAGGACGGCTGAGCGCTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT 180

Qy 181 CGCACAGCGGTGCCCGCCGCGCTCAGTACCATAGGACAGCAGCGCTGCCGCCACGAAAG 240
Db 181 CGCACAGCGGTGCCCGCCGCGCTCAGTACCATAGGACAGCAGCGCTGCCGCCACGAAAG 240

Qy 241 CCAGCAATGACATGATGCTTGGCGTACTCAAGTTGCTCCAGCAGCAGCAGCAGCAGCAGT 300
Db 241 CCAGCAATGACATGATGCTTGGCGTACTCAAGTTGCTCCAGCAGCAGCAGCAGCAGCAGT 300

Qy 301 CCTGGGTCAACTGTGCCACTTAGATGGCAACCTGACCGACCCATGCGGTCCGAAACCGCA 360
Db 301 CCTGGGTCAACTGTGCCACTTAGATGGCAACCTGACCGACCCATGCGGTCCGAAACCGCA 360

Qy 361 CCAACCTGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATACAGG 420
Db 361 CCAACCTGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATACAGG 420

Qy 421 CCATCAGCATGATGGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTTC 480
Db 421 CCATCAGCATGATGGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTTC 480

Qy 481 TGGTCACTGATGATGCTCAGATACACCAAGATGAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCACTGATGATGCTCAGATACACCAAGATGAGACTGCCACCAACATCTACATTT 540

Qy 541 TCAACCTTGTCTGGCAGATGCTTAGCCACCGATACCTGCCCTTCCAGAGTGTGAATT 600
Db 541 TCAACCTTGTCTGGCAGATGCTTAGCCACCGATACCTGCCCTTCCAGAGTGTGAATT 600

Qy 601 ACCTAAATGGGAACATGGCCATTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Db 601 ACCTAAATGGGAACATGGCCATTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660

Qy 661 ACTATAACATGCTTCCACGAGCATATTCACCTCTGCACCATGAGTGTGATCGATACATTG 720
Db 661 ACTATAACATGCTTCCACGAGCATATTCACCTCTGCACCATGAGTGTGATCGATACATTG 720
```

```
Db 661 ACTATAACATGTTTACCAGCATATTCACCTCTGCACCATGAGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTTCGTACTCCCGAAATGCCAAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTTCGTACTCCCGAAATGCCAAAATATATCA 780
Qy 781 ATGTCTGCAACTGGATCTCTCTTTCAGCCATTGGTCTTCTGTAAATGTTTATGGCTTCAA 840
Db 781 ATGTCTGCAACTGGATCTCTCTTTCAGCCATTGGTCTTCTGTAAATGTTTATGGCTTCAA 840
Qy 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCAACTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCAACTGGTACT 900
Qy 901 GGGAAAACTCGTGAAGATCTGTGTTTTTTCATCTTCGCTTTCATATATGCCAGTGTCTATCA 960
Db 901 GGGAAAACTCGTGAAGATCTGTGTTTTTTCATCTTCGCTTTCATATATGCCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATCTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATCTCTCTGGCT 1020
Qy 1021 CAAAAGAAAGGACAGGAATCTTCGAAGGATCACCAAGGATGGTGTGGTGGTGGCTG 1080
Db 1021 CAAAAGAAAGGACAGGAATCTTCGAAGGATCACCAAGGATGGTGTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGCTGACTCCCATTCACATTTTACGTCATCATTTAAAGCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGCTGACTCCCATTCACATTTTACGTCATCATTTAAAGCCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTAGTCTCCAGACTGTTTTCTTGGCACTTCTGCAATTTGCTCTAGGTTACAA 1200
Db 1141 TCCAGAAACTAGTCTCCAGACTGTTTTCTTGGCACTTCTGCAATTTGCTCTAGGTTACAA 1200
Qy 1201 ACAGTGTCTCAACCCAGTCTTTTATGCAATTTCTGATGAAAACCTTCAAGAGTGTCTCA 1260
Db 1201 ACAGTGTCTCAACCCAGTCTTTTATGCAATTTCTGATGAAAACCTTCAAGAGTGTCTCA 1260
Qy 1261 GAGAGTCTGTATCCCAACCTCTTCCAACTTTCAGCAACAAACCTCCACCTCGAATTCGT 1320
Db 1261 GAGAGTCTGTATCCCAACCTCTTCCAACTTTCAGCAACAAACCTCCACCTCGAATTCGT 1320
Qy 1321 AGAACACTAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAAATCATCAGCTAG 1380
Db 1321 AGAACACTAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGG 1500
Qy 1501 CTCTAATTTCTTAGGAAAGTGCCTTCTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCA 1560
Db 1501 CTCTAATTTCTTAGGAAAGTGCCTTCTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCA 1560
Qy 1561 CTCTGTCTGCAATTAGAGGACAGCCAAAAGTAAAGTGGAGCATTTGGGAAGGAAGAA 1620
Db 1561 CTCTGTCTGCAATTAGAGGACAGCCAAAAGTAAAGTGGAGCATTTGGGAAGGAAGAA 1620
Qy 1621 TATACCAACCGGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Db 1621 TATACCAACCGGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Qy 1681 GTATGTGAATGAAGTCAATATAAAGGTGACCCCTCTGTCTGTGAAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATGAAGTCAATATAAAGGTGACCCCTCTGTCTGTGAAGATTTTATTTCAA 1740
Qy 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTTAGTAA 1800
Db 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTTAGTAA 1800
```


Db 1055 AAGCAGGAACTCTCGAAGATCACAGGATGCTGCTGGTGGTGGTCTGTTTCATC 1114
Qy 1089 GTCTGTGGACTCCCATTCATTTAGTATGATTAAGCTTGGTTACATCCAGAA 1148
Db 1115 GTCTGTGGACTCCCATTCATTTAGTATGATTAAGCTTGGTTACATCCAGAA 1174
Qy 1149 ACTAGTTCAGACTGTTCTTGGCACTTCTGCACTTCTAGTTACACAAACAGCTGC 1208
Db 1175 ACTAGTTCAGACTGTTCTTGGCACTTCTGCACTTCTAGTTACACAAACAGCTGC 1234
Qy 1209 CTCAAACCCAGTCTTTATGCACTTCTGGATGAAACTTCAACGATCTTCAGAGTTTC 1268
Db 1235 CTCAAACCCAGTCTTTATGCACTTCTGGATGAAACTTCAACGATCTTCAGAGTTTC 1294
Qy 1269 TGTATCCCAACTCTTCCAACTTGAGCAACAAACTCCACTCGAATTCGTGCAACACT 1328
Db 1295 TGTATCCCAACTCTTCCAACTTGAGCAACAAACTCCACTCGAATTCGTGCAACACT 1354
Qy 1329 AGAGCACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTG 1388
Db 1355 AGAGCACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTG 1414
Qy 1389 GAAGCAGAACTGCTCCGTTGCCCTTAACAGGGTCTCATGCCATTCGACCTTCAACGAC 1448
Db 1415 GAAGCAGAACTGCTCCGTTGCCCTTAACAGGGTCTCATGCCATTCGACCTTCAACGAC 1474
Qy 1449 TTAGAAGCCCACTGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTTAATT 1508
Db 1475 TTAGAAGCCCACTGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTTAATT 1534
Qy 1509 CTCTAGGAAAGTCTACTTTTAGTTCATCCAACTCTTTCCTCTCTGCGCCACTCTGCTC 1568
Db 1535 CTCTAGGAAAGTCTGCTGCTTTTAGTTCATCCAACTCTTTCCTCTCTGCGCCACTCTGCTC 1594
Qy 1569 TGCACATTAGAGG 1581
Db 1595 TGCACATTAGAGG 1607

RESULT 7
PCT-US94-10358-7
; Sequence 7, Application PC/TUS9410358
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: MU OPIOID RECEPTORS: COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/10358
; FILING DATE: Concurrently herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/120.601
; FILING DATE: 13 SEPTEMBER 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: WILSON, MARK B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005P--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679

; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
PCT-US94-10358-7

Query Match 71.8%; Score 1551.4; DB 6; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

Qy 9 GGCATATAGCAGAGGAGAATGTCAGATGCTCGGTCCCTCCGCTGACGCTCCTC 68
Db 36 GGCATATAGCAGAGGAGAATGTCAGATGCTCGGTCCCTCCGCTGACGCTCCTC 95
Qy 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGCGCGAAG 128
Db 96 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGCGCGAAG 155
Qy 129 GAAGCGGCTGAGCGCTTGGMAACCCGAAAGTCTCGTGTCTCTGGTACTCTGCACAGC 188
Db 156 GAAGCGGCTGAGCGCTTGGMAACCCGAAAGTCTCGTGTCTCTGGTACTCTGCACAGC 215
Qy 189 GGTGCCCGCCGCGCTGACGTACATGAGCAGCAGCGCTGCCGCCACGAAACGCCAGCAAT 248
Db 216 -GTGCCCGCCGCGCTGACGTACATGAGCAGCAGCGCTGCCGCCACGAAACGCCAGCAAT 274
Qy 249 TGCACATGATGCTTGGGCTACTCAAGTTGCTCCAGCAGCCAGCCCGGTTCTTGGGTC 308
Db 275 TGCACATGATGCTTGGGCTACTCAAGTTGCTCCAGCAGCCAGCCCGGTTCTTGGGTC 334
Qy 309 AACTTGTCCCACTAGATGGAACCTGACCGCCATCGGCTCCGAACCCGACCAACCTG 368
Db 335 AACTTGTCCCACTAGATGGAACCTGTCGACCCATCGGCTCCGAACCCGACCAACCTG 394
Qy 369 GCGGGAGAGACAGCGCTGCTCCGACCGCGAGTCCCTCCATGATFACGCGGCATCAGC 428
Db 395 GCGGGAGAGACAGCGCTGCTCCGACCGCGAGTCCCTCCATGATFACGCGGCATCAGC 454
Qy 429 ATCATGGCCCTTACTCCATCGTGTGGTGGGCTCTTGGAAACTTCTTGGTCTATG 488
Db 455 ATCATGGCCCTTACTCCATCGTGTGGTGGGCTCTTGGAAACTTCTTGGTCTATG 514
Qy 489 TATGTGATTTGTCAGATACCAAGATGAAGCTGCCCAACATCTACATTTTCAACCTT 548
Db 515 TATGTGATTTGTCAGATACCAAGATGAAGCTGCCCAACATCTACATTTTCAACCTT 574
Qy 549 GCTCTGGCAGATGCTTTAGCCACCCAGTACCTGCTCCCTTCCAGAGTGTGAATTTACCTAATG 608
Db 575 GCTCTGGCAGATGCTTTAGCCACCCAGTACCTGCTCCCTTCCAGAGTGTGAATTTACCTAATG 634
Qy 609 GGAACATGGCCATTTGGAACCATCTCTTTCGAAAGATGATCTTCCATAGATTACTATAAC 668
Db 635 GGAACATGGCCATTTGGAACCATCTCTTTCGAAAGATGATCTTCCATAGATTACTATAAC 694
Qy 669 ATGTTACAGCATATTTACCCCTCTGCAATGATGTTGATCGATACATTTGCAAGTCTGC 728
Db 695 ATGTTACAGCATATTTACCCCTCTGCAATGATGTTGATCGATACATTTGCAAGTCTGC 754
Qy 729 CACCCTGTCAAGGCTTTAGATTTCCGTAATGCTCCCGAAATGCCAAATTTCAATGTCTGC 788
Db 755 CACCCTGTCAAGGCTTTAGATTTCCGTAATGCTCCCGAAATGCCAAATTTCAATGTCTGC 814
Qy 789 AACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAAATAATAC 848
Db 815 AACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAAATAATAC 874
Qy 849 AGGCAAGGTTCCATAGATTGTACACTAACTCTCTCATCCAACTGGTACTGGGAAAC 908
Db 875 AGGCAAGGTTCCATAGATTGTACACTAACTCTCTCATCCAACTGGTACTGGGAAAC 934

QY 1233 CTGGATCAAACTTCAAAACGATGCTTCAGAGAGTTCTGTATCCAAACCTCTTCCAACTT 1292
Db 1021 CTGGATGAAAACCTTCAAAACGATGCTTCAGAGAGTTCTGTATCCAAACCTCTTCCAACTT 1080
QY 1293 GAGCAACAAAACCTCCACTCGAATTCGTGAGAACACATAGAGACCAACCCCTCCACGGCCAAT 1352
Db 1081 GAGCAACAAAACCTCCACTCGAATTCGTGAGAACACATAGAGACCAACCCCTCCACGGCCAAT 1140
QY 1353 ACAGTGATGAGAACTAATCATCATGCTAGCTAGAAAATCTGGAAGCAGAAAATGCTCCGTTGCC 1412
Db 1141 ACAGTGATGAGAACTAATCATCATGCTAGCTAGAAAATCTGGAAGCAGAAAATGCTCCGTTGCC 1200
QY 1413 TAA 1415
Db 1201 TAA 1203

RESULT 9

US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; TITLE OF INVENTION: OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR97/01282
; FILING DATE:
; APPLICATION NUMBER: FR 96.08810
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
US-09-214-904-1

Query Match 54.5%; Score 1177.4; DB 3; Length 2229;
Best Local Similarity 77.8%; Pred. No. 8.7e-301;
Matches 1542; Conservative 0; Mismatches 411; Indels 28; Gaps 9;
QY 9 GCGTATAGCGAGAGAGAAATGTCAGATGCTCAGCTCGGTGCTCCCTCCGCTCAGCGTCTC 68
Db 52 GGATCAAGCAGAGAGAGAAATATCGGACGTCAG-ACGTTCCATTTCTGCTCCGCTCTTC 110
QY 69 TCTGTCTCAGCAGAGACTGGTTTCTGTAAGAACAGCAGAGGAG-CTGTGCGAGCGCGAAA 127
Db 111 TCTGGTTCCACTAGGGCTTGTCTTGTAAAGAACTGACGGAGCCTTAGGGCAGCTGTGAGA 170
QY 128 GGAAGCGGTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTCTACTCGCACAG 187
Db 171 GGAAGAGGCTGGGGCGCTCGAACCGAACACTTGTAGTGTCTCAGTTACAGCCTACC 230
QY 188 CGGTGCGCGCCCGCGCGTCACTAGTACCATGGACAGAGCGTGCCTCCACGAAACCGCAGCAA 247
Db 231 GAGTCCGAGCAAGCATTCAGAACCATGACAGCAGCGCGCGCCCGCAGGGAACATCAGCGA 290
QY 248 TTGCACTGATGCTTGGCGGTACTCAAGTTGCTTCCCGCAGCACCCAGCCCCGGTTCTCGGT 307

Db 291 CTGCTCTGACCCCTTAGCTTCCCTGCAAGTTGGTCCCCAGCA-----CTTGGCTCTGGCT 344
QY 308 CAACTTGTCCCACTTAGATGGCAACCTGACCGACCCATCGGTCGGAACCGCACCAACCT 367
Db 345 CAACTTGTCCCACTTAGATGGCAACCGAGTCGACCCATCGGTCCTTAACCGCACGGGCT 404
QY 368 GGGCGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATACGCGGCATCAC 427
Db 405 TGGCGGGAGCACAGCCTGTGCCCTCAGACCGGACGCTTCCATGGTCACAGCCATCAC 464
QY 428 GATCATGGCCCTTACTCCATCGTGGCTGGGGCTCTTCCGAAACCTTCTCGGTGTCAT 487
Db 465 CATCATGGCCCTTACTTCTATCGTGTGTAGTGGGCTCTTTTGGAAACCTTCTCGGTGTCAT 524
QY 488 GTATGTGATTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547
Db 525 GTATGTGATTGTAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584
QY 548 TGCTCTGGCAGATGCTTAGCCACCACTACCTGCCCTTCCAGAGTGTGAATTTACCTAAT 607
Db 585 TGCTCTGGCAGATGCTTAGCCACCTAGCAGCTGCCCTTTTACAGAGTGTAACTACCTGAT 644
QY 608 GGGAAACATGGCCATTTGGAAACATCTCTTGCAGAGATGATCTCCATAGATTAATAA 667
Db 645 GGGAACTGTGGCCCTTTGGAAACATCTCTTGCAGAGATGATCTCAATAGACTACTACAA 704
QY 668 CATGTTCCACAGCATATTCACCTCTGCACCATGAGTGTGATCGATACATATTGCACTG 727
Db 705 CATGTTCCACAGCATCTTACCTCTGCACCATGAGTGTGATCGAGCGGTACATTTGCCG 764
QY 728 CCACCTGTCAAGGCTTTAGATTTCCGTACTCTCCCGAAATGCCAAATTAATTAATGTCG 787
Db 765 CCACCTGTCAAGGCTTTAGATTTCCGTACTCTCCCGAAATGCCAAATTTGCAATGTCG 824
QY 788 CAACTGGAATCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGCTCAACAAATA 847
Db 825 CAACTGGAATCTCTTTCAGCCATTTGGTCTTCCCGTAAATGTTATGCGAACCAACAAATA 884
QY 848 CAGGCAAGTTCCATAGATTTGATACATTAACATTTCTCTCAACCACTGGTACTGGGAAA 907
Db 885 CAGGCAAGTTCCATAGATTTGACCCCTCACTTTCTCATCCACATGCTACTGGGAA 944
QY 908 CCTCGTGAAGATCTGTGTTTTTTCATCTTTCGCTTTCATTTATGCCAGTGTCTATACCGT 967
Db 945 CCTGCTCAAAATCTGTGCTTCTTCTTTCGCTTTCATCATCGCGTCTCTCATCACTGT 1004
QY 968 GTGCTATGGAATGATGCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027
Db 1005 GTGTTATGGAATGATGCTTACGACTCAAGAGTGTCCGATGCTGTGGGCTCCAAAGA 1064
QY 1028 AAGGACAGGAATCTTCCGAGGATCACCGAGTGTGCTGCTGGTGGTGGTGTGTTTCAT 1087
Db 1065 AAGGACAGGAATCTTCCGAGGATCACCGAGTGTGCTGCTGGTGGTGTGTTTCAT 1124
QY 1088 CGTCTGCTGACACTCCCAATTCACATTTACGTCATCATTTAAAGCTTGGTTACAAATCCAGA 1147
Db 1125 TGTCTGCTGACCCCAATTCACATCTATGTCATCATCAAGACACTGATCAGATTTCCAGA 1184
QY 1148 AACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATTTGCTTAGTTACACAAACAGCTG 1207
Db 1185 AACCACTTTCCAGACTGTTTCTTGGCACTTCTGCAATTTGCTTAGTTACACAAACAGCTG 1244
QY 1208 CCTCAACCCAGTCTTTTATGCAATTTTGGATGAAACTTCAAAAGTGTCTTACAGAGATT 1267
Db 1245 CTTGAAACCCAGTCTTTTATGCGTTTCTTGGATGAAACTTCAAAAGTGTCTTACAGAGATT 1304
QY 1268 CTGATCTCCCACTCTTCCAAACATTTGAGCAACAAACTTCCACTCGAATTCGTTCAGAACAC 1327
Db 1305 CTGATCTCCCACTCTTCCAAACATTTGAGCAACAAACTTCTGCTCGAATTCGTTCAGAACAC 1364
QY 1328 TAGAGACCACTCTCCACGGCCAATACAGTGGATAGAACTAATCATCTAGCTAGAAAATCT 1387

Db 1365 TAGGGAACCCCTCCACGGCTAATACAGTGGATCGAACTAACCAACCCAGCTAGAAAATCT 1424
Qy 1388 GGAAGCAGAAATCTGCTCCCTTGGCCCTTAACAGGGTCTCATGCCATTCGACCTTCACCAAG 1447
Db 1425 GGAAGCAGAAATCTGCTCCCTTGGCCCTTAACAGGGTCCACGCCATCCAGACCCCTCGCTAAA 1484
Qy 1448 CTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAATGTGTAGGAGGCTCTAAT 1507
Db 1485 CTTAGAGGCTGCATCTCTTGGATCAGGTTGCTGTAGGGTTGTGGAGGCTCTGGT 1544
Qy 1508 TCTCTAGGAAAGTGCCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCACTCTGCT 1567
Db 1545 TTCTCTGAAAGCATCTGATCTGTCATCATTTCAAAGTCAATCTCTCTCTGGCTATTCA-CG 1603
Qy 1568 CTGCACATTTAGAGGAGCAGCCAAAGTAAGTGAAGCAATTTGGAAGGAAGGAATATACCA 1627
Db 1604 CTACACGTGAGAGACACTC---AGACTGTGTCAAGCACTCGAAGGAAGAGACTCGAGGC 1660
Qy 1628 CACCGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCCATCGTGGTATG 1685
Db 1661 CACTACTGAATCAGCTCATGTACAGAAACATCCAAATGGAACCAATATCTCTGTGGTATG 1720
Qy 1686 TGAATTTGAAGTCATCAATAAAGGTGACCCCTTCTGTCTGT-AGAATTTTATTTTCAAGCAA 1744
Db 1721 TGAATTTGTGATCAACATAGAAGTGACCCCTTCCCTATGTGGAATTTTAAATTTCAAGGAA 1780
Qy 1745 ATATTTATGACCTCAACAAAGAAAGACCA----TCATTTTGTAAAGTTTCAACCTAGTAAACA 1800
Db 1781 ATACTTATGATCTCATCAAGGGAATAATAGATGTCACTTGTTTAAATTTCACTGTAGTGATG 1840
Qy 1801 CATAAAGTAATGCTACCTCTCATCAAGCACCTTGAATGGAAGGTCCTTTTATG 1860
Db 1841 CATAAAGGAAAGCTACCTCTGACCTTAGCCCAAGTCACCCCTCTATGGAAGTTCCATAG 1900
Qy 1861 TGTTTTTCGAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTTAAAT 1920
Db 1901 GGAATATGTAGGGAA-----AATGTGCTTCCAAATTTAAATTTTCACTTTATGT 1951
Qy 1921 TAGCATCTGGCTAAGGCATCATTTTCACTTCATTTTGGTTTGTATTTGTTTAAATAA 1980
Db 1952 TATAGTCTAGTTAAGACATCAGGGGCATCTCTGTTTCTTGGTTTGTATTTGTTGAAGA 2011
Qy 1981 A 1981
Db 2012 A 2012

RESULT 10
US-09-826-509-546
; Sequence 546, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 1998-10-13
; PRIOR APPLICATION NUMBER: 09/170,496
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 546
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-546

Query Match 53.8%; Score 1163.6; DB 3; Length 1182;

Best Local Similarity 99.7%; Pred. No. 2.8e-297;
Matches 1166; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 213 ATGNCACAGGGCTGCCCCACGAAACCCAGCAATTCGACTGATGCTTGGCGTACTCA 272
Db 1 ATGNCACAGGGCTGCCCCACGAAACCCAGCAATTCGACTGATGCTTGGCGTACTCA 60
Qy 273 AGTTGCTCCCGAGCAGCCAGCCCGGTTCTTGGGTCAACTTGTCCCACTTAGATGGCAAC 332
Db 61 AGTTGCTCCCGAGCAGCCAGCCCGGTTCTTGGGTCAACTTGTCCCACTTAGATGGCAAC 120
Qy 333 CTGACCGACCCATGCGGTCGGAACCGCAACCTTGGGCGGAGAGACAGCCCTGTGCCCT 392
Db 121 CTGTCGACCCATGCGGTCGGAACCGCAACCTTGGGCGGAGAGACAGCCCTGTGCCCT 180
Qy 393 CCGACCGGAGTCCCTCCATGATCAGGGCCATCAGATCATGGCCCTCTACTCCATCGTG 452
Db 181 CCGACCGGAGTCCCTCCATGATCAGGGCCATCAGATCATGGCCCTCTACTCCATCGTG 240
Qy 453 TGCGTGTGGGCTCTTCGAAACCTTCTGGTCAATGTATGTATGTAGATGATGATGATGATG 512
Db 241 TGCGTGTGGGCTCTTCGAAACCTTCTGGTCAATGTATGTATGTAGATGATGATGATGATG 300
Qy 513 ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTTAGCCACC 572
Db 301 ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTTAGCCACC 360
Qy 573 AGTACCTGCCCTCCAGAGTGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 632
Db 361 AGTACCTGCCCTCCAGAGTGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 420
Qy 633 CTTTTCGAAGATGATGATCTCCATAGATTAATTAATTAATTAATTAATTAATTAATTAATTA 692
Db 421 CTTTTCGAAGATGATGATCTCCATAGATTAATTAATTAATTAATTAATTAATTAATTAATTA 480
Qy 693 TGCACCATGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 752
Db 481 TGCACCATGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
Qy 753 GGTACTCCCGAAATGCAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 812
Db 541 GGTACTCCCGAAATGCAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 600
Qy 813 GGTCTTCTGTAATGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 872
Db 601 GGTCTTCTGTAATGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
Qy 873 CTAACTTCTCTCATCCAACTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 932
Db 661 CTAACTTCTCTCATCCAACTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Qy 933 TTCGCTTCTCATTTATGCGAGTGTCTATTAATTAATTAATTAATTAATTAATTAATTAATTA 992
Db 721 TTCGCTTCTCATTTATGCGAGTGTCTATTAATTAATTAATTAATTAATTAATTAATTAATTA 780
Qy 993 CTCAGAGTGTCCGATGCTCTCTGCTCCAAAGAAAGGACAGGAATCTTCGAAGATC 1052
Db 781 CTCAGAGTGTCCGATGCTCTCTGCTCCAAAGAAAGGACAGGAATCTTCGAAGATC 840
Qy 1053 ACCAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1112
Db 841 AAGAGGATGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Qy 1113 TACGTCATCATTAAGAGCTTGGTTTCAATCCAGAAAATACAGTTCCAGACTGTTTCTTGG 1172
Db 901 TACGTCATCATTAAGAGCTTGGTTTCAATCCAGAAAATACAGTTCCAGACTGTTTCTTGG 960
Qy 1173 CACTTCTGCAATGCTCTAGGTTTACAAACAGCTGCTCAACCCAGTCCCTTTATGATTT 1232
Db 961 CACTTCTGCAATGCTCTAGGTTTACAAACAGCTGCTCAACCCAGTCCCTTTATGATTT 1020
Qy 1233 CTGGATGAAAACCTTCAACCGATGCTTTCAGAGAGTTCTGTATCCCAACCTTTCACCAAT 1292

Db 1021 CTGGATGAAAACTTCAACGATGCTTCAGAGAGTTCGTATCCAAACCTCTTCCAAACATT 1080
Qy 1293 GAGCAACAAACTCCACTCGAATTCGTCAAGAACACTAGAGACCAACCCCTCCAGGCGCAAT 1352
Db 1081 GAGCAACAAACTCCACTCGAATTCGTCAAGAACACTAGAGACCAACCCCTCCAGGCGCAAT 1140
Qy 1353 ACAGTGGATAGAACTAATCATCATGCTAGTAGAA 1382
Db 1141 ACAGTGGATAGAACTAATCATCATGCTAGTAGTA 1170

RESULT 11
US-08-387-707-15
; Sequence 15, Application US/08387707
; Patent No. 6265563
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSES: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatenLin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/387,707
; FILING DATE: 10-SEP-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H. 959
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-387-707-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 8.9e-293;
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

Qy 9 GGCTATAGGCGAGGAGAAATGTCAGATGCTCAGTCCGTCGCTCCCTCCGCTGACGCTCCTC 68
Db 52 GGATACAGCAGAGAGAGAAATATCGACGCTCAG-ACGTTCCATTCTCGCTGCGGCTCTTC 110
Qy 69 TCTGCTCAGCGCAGGACTGGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGGAAA 127
Db 111 TCTGGTTCCACTAGGGCTTGCTGTTAGAAACTGACGAGGCTTAGGCGAGCTGTGAGA 170
Qy 128 GGAAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAG 187
Db 171 GGAAGAGGCTGGGCGGCTGGAACCCGAAACTCTTGAGTGCTCTCAGTTACAGNCTACC 230
Qy 188 CGGTGCGGCGCGGCTGAGTACATGAGCAGCAGCGCTGCCCGCCAGCAACCGCAGCA 247
Db 231 GAGTCCGCGGAGGAGCATTTAGAACCATGGACAGCAGCGCGCGCCAGGAAACATCAGCGA 290
Qy 248 TTGCACCTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCAGCGCCCGGTTCCCTGGGT 307

Db 291 CTGCTCTGACCCCTTAGCTTCCTGCAAGTTGCTCCCCAGCA-----CCTGGCTCCTGGCT 344
Qy 308 CAACTTGTCCCACTTAGATGGCAACTGTGACCGACCATCGGTTCGGAACCGCAACCAACT 367
Db 345 CAACTTGTCCCACTTAGATGGGAACCGAGTCGACCCATCGGTCTTAACCCGAGCGGCT 404
Qy 368 GGGCGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGGCAATCAC 427
Db 405 TGGCGGGAACGACAGCCTGTGCCCTCAGACCGGAGCCCTTCCATGGTCACAGCCATCAC 464
Qy 428 GATCATGGCCCTTACTCATCGTGTGCGTGGGCTCTTCGGAACCTTCTGCTGTCAT 487
Db 465 CATCATGGCCCTTACTCATCGTGTGCTAGTGGGCTCTTTTGGAAACTTCTGCTGTCAT 524
Qy 488 GTATGTGATTGTGAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547
Db 525 GTATGTGATTGTAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584
Qy 548 TGCTCTGGCAGATGCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGTGAATTTACCTAAT 607
Db 585 TGCTCTGGCAGATGCTTAGCCACTAGCAGCGCTGCCCTTTTCAAGTGTAACTTACCTGAT 644
Qy 608 GGGAACTGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTTACTATAA 667
Db 645 GGGAACTGGCCCTTTTGGAAACATCTCTGCAAGATCGTATCTCAATAGACTACTACAA 704
Qy 668 CATGTTACGACGATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTTGACGCTG 727
Db 705 CATGTTACGACGATATCTTACCCCTCTGCACCATGAGTGTAGACCGCTACATTTGCCGCTG 764
Qy 728 CCACCCCTGTCAAGGCTTAGATTTCCGTAATCTCCCGAAATGCCAAATTTATCAATGTCTG 787
Db 765 CCACCCCGGTCAAGGCTTGGATTTTCCGTAATCTCCCGAAATGCCAAATTTGTCATGTCTG 824
Qy 788 CAACTGGATCCTCTCTTACGCCATTTGGTCTTCTGTAATGTTTCATCGCTACACAAATA 847
Db 825 CAACTGGATCCTCTCTTACGCCATTTGGTCTTCCCGGTAATGTTTCATGGCAACCAAAATA 884
Qy 848 CAGGCAAGGTTCCATAGATTGTACACTAAACATTTCTCATCCAAACCTGGTACTGGGAAA 907
Db 885 CAGGCAAGGTTCCATAGATTGTACCCCTCAGGTTCTCTCATCCACATGGTACTGGGAGAA 944
Qy 908 CCTGCTGAAGATCTGTTTTTCAATTTCCGCTTCAATATGCGCAGTGCTCATATTACCGT 967
Db 945 CCTGCTCAAAAATCTGTGTCTTCAATCTTCCGCTTCAATGCTCGCGGCTCATCATCACTGT 1004
Qy 968 GTGCTATGAGTATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCCAAGA 1027
Db 1005 GTGTTATGGACTGATGATCTTACAGCTCAAGAGTGTCCGCTCATGCTGCGGCTCCAAAGA 1064
Qy 1028 AAGGACAGGAATCTTTCGAAGGATCACAGGATGGTGTGCTGGTGGTGGCTGTGTTTCAT 1087
Db 1065 AAGGACAGGAATCTTTCGAAGGATCACCCGAGTGGTGTGCTGGTGGTGGTGTGTTTAT 1124
Qy 1088 CGTCTGCTGAGCTCCCAATTTACATTTTACGTCATCATTTAAAGCCTTGGTTTAAATCCAGA 1147
Db 1125 TGTCTGTGGACCCCATCCACATCTATGTCACTCAAAAGCACTGATCAGATTCCAGA 1184
Qy 1148 AACTAGCTTCCAGTCTGTTTCTGGCACTTCTGCAATGCTCTAGGTGTACCAACAGCTG 1207
Db 1185 AACCACTTTCAGACTGTTTCTCGGCACTTCTGCAATGGCTGGCTGTACCAACAGCTG 1244
Qy 1208 CCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAAAAGATGCTTTCAGAGAGTT 1267
Db 1245 CTTGAACCCAGTCTTTTATGCGTTCTTGGATGAAACTTCAAAAGATGTTTTCAGAGAGTT 1304
Qy 1268 CTGTATCCCAACCTCTTCCAACTTGAAGCAAAAACTCCACTCGAATTCGTGAGAACAC 1327
Db 1305 CTGCATCCCAACCTCTTCCCACTTGAAGCAAAAACTCTGCTCGAATTCGTGAGAACAC 1364
Qy 1328 TAGAGACCAACCCCTTCCAGGCGCAATCAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387
Db 1365 TAGGGAACACCCCTTCCAGCGCTAATCAGTGGATCGAACTTAACCCAGCTAGAAATCT 1424

1388 GGAAGCAGAAACTGCTCCGTTGCCCTAACAGGGTCTCATGCGATTCGACCTTCACCAG 1447
1425 GGAAGCAGAAACTGCTCCATTTGCCCTTAACCTGGTCCACGCCATCCAGACCCCTCGCTAAA 1484
1448 CTTAGAAGCCACCATGTATGTGAAGCAGGTTGCTTCAAGAAATGTGTAGAGGCTCTAAT 1507
1485 CTTAGAAGCTGCCATCTACTTGGATCAGGTTGCTGTAGGTTTGTGGAGGCTCTGT 1544
1508 TCTTAGGAAGTGCCTACTTTTAGGTCAATCCAACTCTTTCTCTCTGCGCCACTCTGT 1567
1545 TTCTCTGAAAGACATCTGATCTCTGCATCATTTCAAAGTCTATCTCTCTGCTATTTC-ACG 1603
1568 CTGCACATTTAGAGGAGCAGCCAAAGTAAGTGGAGCAATTTGGAAGAAAGGAATATACCA 1627
1604 CTACACGTGAGAGACA---CTCAGACTGTGTCAAGCACTCAGAAGGAAGAGACTGCGGC 1660
1628 CACCGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCCATCGTGTATG 1685
1661 CACTACTGAATCCAGCTCATGTACAGAAACATCCAAATGGACCAATATCTCTGTGGTATG 1720
1686 TGAATTTGAAGTCAATATAAAGGTGACCCCTTCTGTCTGT-TAAGATTTTATTTTCAAGCAA 1744
1721 TGAATTTGTATCAACATAGAGGTTGACCTTCCCTATGTGGAAATTTTAAATTTCAAGGAA 1780
1745 ATATTTATGACCTCAACAAAGAAAGAACCA-----TCTTTTGTAAAGTTTCAACCTAGTAACA 1800
1781 ATACTTTATGATCTCATCAAGGGGAAATATAGATGTCACTTTGTTAAATTTCACTGTAGTATG 1840
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTATG 1860
1841 CATAAAGAAAGTACCTTCTGACCTCTAGCCAGTCAACCTCTATGGAAGTTCCATAG 1900
1861 TGTATTTTGAAGGGAATGAATCAATTTATTTTATTTTATTTTATTTTAACTTTCAACTTTAAAT 1920
1901 GGAATATGTGAGGGAA-----AATGTGCTTCCAAATAAAATTTTCACTTTATGT 1951
1921 TAGCATCTGGCTAGGCAATCAATTTTCACTT 1950
1952 TATAGTCTAGTTAAGACATCAGGGGCATCT 1981

RESULT 12

US-08-405-271A-15
Sequence 15, Application US/08405271A
Patent No. 6432652
GENERAL INFORMATION:
APPLICANT: EVANS, CHRISTOPHER J.
APPLICANT: KEITH, DUANE E.
TITLE OF INVENTION: OPIOID RECEPTOR GENES
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/405,271A
FILING DATE: 14-MAR-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 22000-20526.22
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500

TELEFAX: (202) 887-0763
TELEX: 90-4030 MBSNFOERSWSH
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1981 base pairs
TYPE: nucleic acid
STRADEDNESS: single
TOPOLOGY: linear
US-08-405-271A-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 8.9e-293;
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

QY 9 GCCTATAGGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCGCTCGCTGACGCTCC 68
DB 52 GGATACAAAGCAGAGAGAAATATCGGACGCTCAG-ACGTTTCCATTTCTGCTCGCGCTCTTC 110
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
DB 111 TCTGTTTCACTAGGGCTTGTCTTGTAAAGAACTGACGGAGCCTAGGCGAGCTGTGAGA 170
QY 128 GGAACGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTCTACTTCGCACAG 187
DB 171 GGAAGAGGCTGGGGCGCTGGAAACCGGAAACACTCTTGTAGTGTCTCTCAGTTACAGNCTAC 230
QY 188 CGGTCCCGCCCGCGCTGAGTACCATGGACAGAGCGCTGCCCGCCACGAGCCAGCA 247
DB 231 GAGTCCGAGGAAGCATTCAGAAACATGGACAGAGCGCGCCCGCCAGGGAACATCAGCGA 290
QY 248 TTGCACTGATGCTTTGGGGTACTCAAGTTGCTTCCCGACGACCCCGCGGTTCCTGGGT 307
DB 291 CTGCTCTGACCCCTTAGCTCTCTGAAAGTTGCTTCCCGACA-----CCTGGCTCTGGCT 344
QY 308 CAACCTGTGCTTCTAGATGGCAACTGACCGAACCATCGGTGCGAACCGCACCAACCT 367
DB 345 CAACCTGTGCTTCTAGATGGCAACTGACCGAACCATCGGTGCGAACCGCACCGGCT 404
QY 368 TGGCGGAGAGACAGCTGTGCGCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAC 427
DB 405 TGGCGGGAACGACAGCCTGTGCGCTCAGACCGGAGCCTTCCATGCTCAGAGCCATCAC 464
QY 428 GATCATGGCCCTCTACTCTCATCGTGTGGTGGGGCTCTTTCGGAAACTTCTCTGTGCTAT 487
DB 465 CATCATGGCCCTCTATTCTATCTGTGTGTAGTGGGCTCTTTCGGAAACTTCTCTGTGCTAT 524
QY 488 GTATGTGATTGTGAGATACACCAAGATGAAGACTGCGCACCAACATCTACATTTCAACCT 547
DB 525 GTATGTGATTGTGAAGATATACCAAAATGAAGACTGCGCACCAACATCTACATTTCAACCT 584
QY 548 TGCTCTGGCAGATGCTTAGCCACGATACCTCGCTTCCAGAGTGTGAAATTTACCTAAT 607
DB 585 TGCTCTGGCAGATGCTTAGCCACGATAGCACGCTGCGCTTTCAGAGTGTAACTTACCTGAT 644
QY 608 GGGAAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTATCTCCATAGATTTACTATAA 667
DB 645 GGGAAAGTGGCCCTTTGGAAACATCTCTGTGCAAGATCGTGTATCTCAATAGACTACTACAA 704
QY 668 CATGTTACCAAGATATTCACCTCTGACCAACATAGTGTGTGATAGTATGATGAGTCTG 727
DB 705 CATGTTACCAAGATATTCACCTCTGACCAACATAGTGTGTGATAGTGTGATGAGTCTG 764
QY 728 CCACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATCTCTG 787
DB 765 CCACCGGTCGAAGGCTTGATTTCCGTATCCCGGAAATGCCAAATTTGTCAATGTCTG 824
QY 788 CAACCTGGATCTCTCTTCAAGCCATTTGCTCTGTGTAATGTTTCATGGCTCAACAAAAATA 847
DB 825 CAACCTGGATCTCTCTTCTGCCATTTGGTCTGCGCGGTAATGTTTCATGGCAACCAAAAAATA 884
QY 848 CAGGCAAGGTTCCATAGATTTGACTAACTTCTCTCATCCAACTGGTACTGGGAAAA 907
DB 885 CAGGCAAGGTTCCATAGATTTGCAACCTCTCCTCATCCACATGCTACTGGGAGAA 944

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (cDNA)
FEATURE:
NAME/KEY: CDS
LOCATION: 214..1410
US-08-889-108-1

Query Match 50.8%; Score 1099; DB 3; Length 1618;
Best Local Similarity 83.3%; Pred. No. 4e-280;
Matches 1311; Conservative 0; Mismatches 250; Indels 12; Gaps 5;

QY 9 GGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGTGGTCCCTCGCCCTGAGCGCTCCTC 68
DB 11 GGCTACAGCAGAGGAGAAATATCAGACGCTCAG-ACGTTCCCTTCTGCGCTGCGCTCTTC 69
QY 69 TCTGTCTCAGCCAGGAGCTGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGGCGAAA 127
DB 70 TCTGGTTCCACTAGGCTGGTCCATGTAAGAACTCAGCGAGCCTAGGGCAGCTGTGAGA 129
QY 128 GGAAGCGCTGAGCGCTTGAACCCCGAAAGTCTCGGTGCTCTGCTGCTACCTCGCACAG 187
DB 130 GGAAGCGCTGGGCGCGTGGAAACCCGAAAGTCTGAGTGTCTCTCAGTTACAGCGCTAC-C 188
QY 188 CGGTGCGCGCGCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAACGCGACGAA 247
DB 189 TAGTCCCGCAGCAGCGCTTTCAGCACCATGGACAGCAGCACCGCGCCAGGGAACACGCGGA 248
QY 248 TTGCACCTGATGCTTGGCGTACTCAAGTGTCTCCCGACGACCCAGCGCCCGGTTCTGGGT 307
DB 249 CTGCTCAGACCCCTTAGCTCAGGCAAGTGTCTCCCGACGAC- - - - -CTGGCTCTGGCT 302
QY 308 CAATCTGTCCACTTAGATGCAACCTGACCGACCCATGGCGTCCGATGATGCGGACCGACCACT 367
DB 303 CAATCTGTCCACTTAGATGCAACCTGACCGACCCATGGCGTCCGATGATGCGGACCGACCGGCT 362
QY 368 GGGCGGAGAGACAGCTGTGCTCCCGACCGGAGTCCCTCCATGATGATGCGGACCGACCTAC 427
DB 363 TGGCGGGAACAGACAGCTGTGCTCCCGACCGGAGTCCCTCCATGATGATGCGGACCGACCTAC 422
QY 428 GATCATGGCCCTTACTCTATCGTGTGTGGTGGTGGTGGTCTTTCGGAACCTTCTGGTGCAT 487
DB 423 CATCATGGCCCTTACTCTATCGTGTGTGGTGGTGGTCTTTCGGAACCTTCTGGTGCAT 482
QY 488 GTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 547
DB 483 GTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 542
QY 548 TGCTCTGGCAGATGCTTGGCAGCAGTACCTGCGCTTCCAGAGTGTGAATTAACCTAAT 607
DB 543 TGCTCTGGCAGATGCTTGGCAGCAGTACCTGCGCTTCCAGAGTGTGAATTAACCTAAT 602
QY 608 GGGAAACATGGCCATTTGGAAACCTCTTTCAGAGATGATGATCTCCATAGATTAATAA 667
DB 603 GGGAAACATGGCCATTTGGAAACCTCTTTCAGAGATGATGATCTCCATAGATTAATAA 662
QY 668 CATGTTCCAGCAGATTAATCAACCTCTGCAACATGAGTGTGATGATGATGATGATGATGATGAT 727
DB 663 CATGTTCCAGCAGATTAATCAACCTCTGCAACATGAGTGTGATGATGATGATGATGATGATGAT 722
QY 728 CCACCTGTCAAGGCTTAGATTTCCGATCTCCCGAAATGCCAAATTAATTAATGATGCTG 787
DB 723 CCACCTGTCAAGGCTTAGATTTCCGATCTCCCGAAATGCCAAATTAATTAATGATGCTG 782
QY 788 CAATGGATCTCTCTCTCAGGCAATGCTTCTCTGATGATGATGATGATGATGATGATGATGATGAT 847
DB 783 CAATGGATCTCTCTCTCAGGCAATGCTTCTCTGATGATGATGATGATGATGATGATGATGATGAT 842
QY 848 CAGGCAAGGTTCCATAGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 907
DB 843 CAGGCAAGGTTCCATAGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 902
QY 908 CCTGTGNAGATCTGTGTTTCACTTTCGCTTCAATATGCGAGTGTCTCATCAATACCGT 967

DB 903 CCTGTCAAAATCTGTGCTTTATCTTCGCTTTCATCATGCGGATCCTCATCATCACTGT 962
QY 968 GTGCTATGACTGATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027
DB 963 GTGTTACGGCCTGATGATCTTACGACTCAAGAGCGTTCGATGCTATCGGGCTCCAAAGA 1022
QY 1028 AAGGACAGGAATCTTTCGAAGGATCACCAAGGATGCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1087
DB 1023 AAGGACAGGAATCTGCGCAGGATCACCCGAGTGTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1082
QY 1088 CGTGTGCTGAGCTCCCAATTCACATTTAGCTCATCAATTAAGCCCTTGGTTACATCCAGA 1147
DB 1083 CGTGTGCTGAGACCCCATCCATCTACGTCATCATCAAGCGCTGATCCGATTCAGA 1142
QY 1148 AACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTTACACAAACAGCTG 1207
DB 1143 AACCAATTTACAGACGTTTCTTGGCACTTCTGCACTTCTTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1202
QY 1208 CCTCAACCCAGTCTTTTATGCTTTCTGGATGAAACTTTCAACGATGCTTTCAGAGAGTT 1267
DB 1203 CCTGATCCAGTCTTTTACGCTTCTTGGATGAAACTTTCAAGCGATGCTTTCAGAGAGTT 1262
QY 1268 CTGTATCCCAACCTTCCAAACATTTAGGACAAACAAACTCCACTCCGATTCGTGAGAAC 1327
DB 1263 CTGATCCCAACCTTCCAAACATTTAGGACAAACAAACTCCACTCCGATTCGTGAGAAC 1322
QY 1328 TAGAGACCACTCCCTCCAGCGCAATACAGTGGATAGAACTTAATCATCAGCTAGAAAATCT 1387
DB 1323 TAGGGAACATCCCTCCAGCGCTAATACAGTGGATGAACTTAACCAACAGCTAGAAAATCT 1382
QY 1388 GGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTTCAACCAAG 1447
DB 1383 GGAAGCAGAACTGCTCCCTTAACTGCTTAACTGCTTCAACCACTCCAGACCTCGCTAAG 1442
QY 1448 CTTAGAGCCACCATGTATGTGGAAGAGGCTTCTTCAAGAAATGTGAGAGGCTCTAAT 1507
DB 1443 CTTAGAGCCGCTCATCTAGTGAATCAGTTTCTGTCAGGGTGTGTGGAGGCTCTGGT 1502
QY 1508 TCTCTAGGAAGTGCCTACTTTTAGGTTCATCCAACTCTTCTCTCTCTGCGCACTCTGCT 1567
DB 1503 TTCTGAGAAA- - - - -CATCTGATCCTGATTCCTGATTCCTGATTCCTCTCTGCTACTTCACT 1559
QY 1568 CTGCACATTAGAG 1580
DB 1560 CTGCACATGAG 1572

RESULT 15
US-08-889-108-3
; Sequence 3, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

```
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cdna)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 339..1235
;
US-08-889-108-3

Query Match          50.8%; Score 1099; DB 3; Length 1618;
Best Local Similarity 83.3%; Pred. No. 4e-280;
Matches 1311; Conservative 0; Mismatches 250; Indels 12; Gaps 5;

QY 9 GGCCTATAGGCAGAGGAGATGTCAGATGCTCAGTCCGTCGGTCCCTCCGCTGACGGTCTCTC 68
DB 11 GGCCTAACAGCAGAGGAGATATCAGACGCTCAG-ACGTTCCCTTCTGCTGCGCTCTTTC 69
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAGAACACAGCAGAG-CTGTGGCAGGGCGAA 127
DB 70 TCTGGTTTCCACTAGGGCTGGTTCATGTAAGAACTCTGACGGAGCCTAGGGCAGCTGTGAGA 129
QY 128 GGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGCTACCTCGCACAG 187
DB 130 GGNAGAGGCTGGGGCGGTGGAAACCGGAAAGTCTCAGTGTCTCAGTTACAGCTAC-C 188
QY 188 CGGTGCCCGCGCGCGCTCAGTACCATGACAGCAGCGGTGCCGCCACGAAACCGCAGCAA 247
DB 189 TAGTCCGCAGCAGGCGCTTCCAGCACCATGGACAGCAGCAGCGGCCCGGAAACACACGCA 248
QY 248 TTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCGAGCCCGGTTCTCTGGGT 307
DB 249 CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCCAGCA-----CCTGGGTCTCTGGCT 302
QY 308 CAACTTGTCCCACTTAGATGGCAACCTGACCGAACCATGCGGTCCGAAACCGCACCAACCT 367
DB 303 CAACTTGTCCCACTTAGATGGCAACCAAGTCGATCCATGGGTCTGAAACCGCACCGGGCT 362
QY 368 GGGCGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAC 427
DB 363 TGGCGGGAACGACAGCCTGTGCCCTCAGACCGGACGCGCTTCCATGGTCACAGCCATTAC 422
QY 428 GATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAAACTTCTCGTGTCTAT 487
DB 423 CATCATGGCCCTCTACTCTATCGTGTGTAGTGGGCGCTTCTCGGAAACTTCTCGTGTCTAT 482
QY 488 GTATGTGATTTGTGAGATACACCAAGATGAAGATGCGCAACCAACATCTACATTTTCAACCT 547
DB 483 GTATGTGATTTGTAGATACACCAAAATGAAGATGCGCAACCAACATCTACATTTTCAACCT 542
QY 548 TGTCTGGCAGATGCTTACGCAACAGTACCCCTTCCAGAGTGTGAAATTACCTAAT 607
DB 543 TGTCTGGCAGAGCGCTTAGCGACCAAGTACACTGCGCTTTTCCAGAGTGTCAACTACCTGAT 602
QY 608 GGGAAATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAA 667
DB 603 GGGAAATGGCCCTTGGAAACCATCTCTGCAAGATCGTGATCTCAATAGATTACTACAA 662
QY 668 CATGTTTACCAGCATATTACCCCTCTGCAACCATGAGTGTGATTCGATACATTGCACTCTG 727
DB 663 CATGTTTACCAGCATATTACCCCTCTGCAACCATGAGGCTGGACCGCTACATTGCTGTCTG 722
```

```
QY 728 CCACCTCTCAGGCGCTTAGATTTCCGTACTCCCGGAAATGCCAAAATTTATCAATGTCGTG 787
DB 723 CCACCCAGTCAAAGCCCTGGATTTCCGTACCCCGGAAATGCCAAAATCGTCAAGCTCTG 782
QY 788 CAACTGGATCCTCTCTTCCAGCCATTGGTCTTCTCTTAATGTTTCATGGCTACAAATAA 847
DB 783 CAACTGGATCCTCTCTTCTGCCATCGGTCTGCTCTTAATGTTTCATGGCAACCAATAA 842
QY 848 CAGGCAAGGTTCCATAGATTGTACACTAACTCTCTCATCCAACTGGTACTGGGAAA 907
DB 843 CAGGCAAGGTTCCATAGATTGTACACTAACTCTCTCATCCCACTGGTACTGGGAGAA 902
QY 908 CCTCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCGAGTCTCATATTACCT 967
DB 903 CCTGCTCAAAATCTGTGCTTTCATCTTCGCTTTCATTCATGCGCATCTCATCTACTGT 962
QY 968 GTGCTATGCACTGATGATCTTTCGCGCTCAAGAGTGTCCGCACTCTCTGGCTCCAAAGA 1027
DB 963 GTGTTACGCGCTGATGATCTTACGACTCAAGAGCGTTCGATGCTATCGGCTCCAAAGA 1022
QY 1028 AAAGACAGGAAATCTTCGAAGGATCACCAGGATGTGCTGTGGTGGTGGTGTGTTCTAT 1087
DB 1023 AAAGACAGGAAATCTTCGCGAGGATCACCAGGATGTGCTGTGGTGGTGTGTTCTAT 1082
QY 1088 CGTCTGCTGGACTCCCATTTCACTTTTCACTTAAAGCTTTGGTTTACAAATCCCAGA 1147
DB 1083 CGTCTGCTGGACCCCATCCATCTAGTTCATCAAGAGCGTTCGATCAGATTTCCAGA 1142
QY 1148 AACTACGTTTCCAGACTGTTTCTTGGCACTTCTGCACTTGTCTAGGTTTACAAACAGCTG 1207
DB 1143 AACCACTTTCAGACCGTTTCTGCACTTCTGCACTTGTGGGTTCACGACAGCTG 1202
QY 1208 CCTCAACCGAGTCTTTTATGCAATTTCTGATGAAATTTCAAACGATGCTTCCAGAGTT 1267
DB 1203 CTTGAATCCAGTCTTTTACGCGCTTCTGATGAAATTTCAAGCGATGCTTCCAGAGTT 1262
QY 1268 CTGTTATCCCACTCTTCCACATTTGAGCAACAACTCCACTCCGAAATTCGTCAGAACAC 1327
DB 1263 CTGCAATCCCACTCTGTCACGATCGAAGCAAGAACTCCACTCGAGTCCGTCAGAACAC 1322
QY 1328 TAGAGACCAACCCCTCCAGGCAATACAGTGTGATAGAACTAATCATCAGCTAGAAAATCT 1387
DB 1323 TAGGGAACATCCCTCCAGGCTAATACAGTGGATCGAACTAACCCAGCTAGAAAATCT 1382
QY 1388 GGAAGCAAGAACTGTCTCGTTCGCTTAAAGGGTCTCATGCCATTCGCCACTTCCACCAAG 1447
DB 1383 GGAAGCAAGAACTGTCTCCATTTGCCCTTAACTGGGTCTCAACCATCCAGACCCCTCGCTAAG 1442
QY 1448 CTTAGAAGCCACCATGATGTGGAAGCAGGTTGCTTCAAGAAATGTAGAGGCTCTAAT 1507
DB 1443 CTTAGAGGCGGCACTCTAGTGGAAATCAGGTTGCTGTAGGGGTGTGTTGGAGGCTCTGT 1502
QY 1508 TCTCTAGGAAAGTGTCTACTTTTAGGTTCATCCAACTCTTTTCTCTCTGCGCACTGTGT 1567
DB 1503 TTCTCTGAGAAA---CCATCTGATCCTGCAATCAAAGTCAATCTCTCTGCTACTTCACT 1559
QY 1568 CTGCACTTAGAG 1580
DB 1560 CTGCACTTAGAG 1572
```

Search completed: January 8, 2006, 20:21:05
Job time : 368.698 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:36:32 ; Search time 1712.52 Seconds
(without alignments)
10439.788 Million cell updates/sec

Title: US-09-883-839-1-A336
Perfect score: 2162
Sequence: 1 ggaattccggctataggacg.....gtggtttgtcttcggaattc 2162

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues
Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2160	99.9	2162	3	US-09-883-839-5
2	2158.4	99.8	2162	3	US-09-883-839-1
3	2158.4	99.8	2162	5	US-10-225-567A-185
4	2158.4	99.8	2162	6	US-10-305-720-1379
5	2158.4	99.8	2162	9	US-10-500-050-1
6	2156.8	99.8	2162	3	US-09-883-839-3
7	2156.8	99.8	2162	3	US-09-883-839-7
8	2156.8	99.8	2162	3	US-09-883-839-8
9	2145.4	99.2	2165	3	US-09-883-839-9
10	2108.8	97.5	2149	5	US-10-080-917-12
11	2097.8	97.0	2279	8	US-10-477-714-33
12	1351.8	62.5	1473	5	US-10-080-917-13
13	1343.6	62.1	1431	5	US-10-080-917-6
14	1198.2	55.4	1203	3	US-09-826-509-544
15	1198.2	55.4	1203	8	US-10-925-095-546
16	1197	55.4	1388	5	US-10-185-083-26
17	1195.6	55.3	1464	5	US-10-185-083-25
18	1177.4	54.5	2229	3	US-09-214-904-1
19	1163.6	53.8	1182	3	US-09-826-509-546
20	1163.6	53.8	1182	8	US-10-925-095-546
21	1157.6	53.5	1245	5	US-10-080-917-8
22	1155.8	53.5	1176	3	US-09-935-061-11
23	1155.8	53.5	1176	7	US-10-692-071-11

24	1147	53.1	1981	3	US-09-823-114-15	Sequence 15, Appl
25	1147	53.1	1981	6	US-10-230-748-15	Sequence 15, Appl
26	1127	52.1	1176	3	US-09-935-061-13	Sequence 13, Appl
27	1127	52.1	1176	7	US-10-692-071-13	Sequence 13, Appl
28	1124.8	52.0	1197	3	US-09-935-061-15	Sequence 15, Appl
29	1124.8	52.0	1197	7	US-10-692-071-15	Sequence 15, Appl
30	1103.6	51.0	1239	5	US-10-080-917-10	Sequence 10, Appl
31	1099	50.8	1618	3	US-09-841-720-1	Sequence 1, Appl
32	1099	50.8	1618	3	US-09-841-720-3	Sequence 3, Appl
33	1071	49.5	1610	3	US-09-761-962-16	Sequence 16, Appl
34	1071	49.5	1610	5	US-10-283-300-16	Sequence 16, Appl
35	1020.8	47.2	1614	5	US-10-185-083-16	Sequence 17, Appl
36	992.8	45.9	1569	5	US-10-185-083-17	Sequence 15, Appl
37	990.6	45.8	1440	5	US-10-185-083-15	Sequence 24, Appl
38	919.4	42.5	1695	5	US-10-185-083-24	Sequence 4, Appl
39	916.4	42.4	1542	3	US-09-761-962-4	Sequence 4, Appl
40	916.4	42.4	1542	5	US-10-283-300-4	Sequence 11, Appl
41	915	42.3	1365	3	US-09-761-962-11	Sequence 11, Appl
42	915	42.3	1365	5	US-10-283-300-11	Sequence 51, Appl
43	915	42.3	1373	5	US-10-185-083-51	Sequence 1, Appl
44	915	42.3	1423	3	US-09-761-962-1	Sequence 1, Appl
45	915	42.3	1423	5	US-10-283-300-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-883-839-5
; Sequence 5, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-5

Query Match 99.9%; Score 2160; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GGAAATCCGCTATAGCAGAGGAGATGTTCAGATGTCTAGTTCGTCCTCCGCTCGA	60
Db	1	GGAAATCCGCTATAGCAGAGGAGATGTTCAGATGTCTAGTTCGTCCTCCGCTCGA	60
Qy	61	CGCTCTCTCTGTCTAGCCAGGACTGGTTCTGTAGAACACAGCAGAGCTGGGAGC	120
Db	61	CGCTCTCTCTGTCTAGCCAGGACTGGTTCTGTAGAACACAGCAGAGCTGGGAGC	120
Qy	121	GGCGAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTCTCTCTGGCTACCT	180
Db	121	GGCGAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTCTCTCTGGCTACCT	180
Qy	181	CGCACAGCGGTGCCCGCCGCGCTCAGTACCATGGACAGCGCTGCCCGCCACGACG	240
Db	181	CGCACAGCGGTGCCCGCCGCGCTCAGTACCATGGACAGCGCTGCCCGCCACGACG	240

QY 241 CCAGCAATTGCACTGATGCTTGGGGTACTCAAGTTGCTCCCGAGACCCAGCCCGGTT 300
DB |||||
DB 241 CCAGCAATTGCACTGATGCTTGGGGTACTCAAGTTGCTCCCGAGACCCAGCCCGGTT 300
QY 301 CTTGGGTCAACTGTTCCTTCCACTTAGATGGCAACTGACCGACCATGCGTGCGGAACCGCA 360
DB |||||
DB 301 CTTGGGTCAACTGTTCCTTCCACTTAGATGGCAACTGACCGACCATGCGTGCGGAACCGCA 360
QY 361 CCAACTGGCGGGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
DB |||||
DB 361 CCAACTGGCGGGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
QY 421 CCAATCAAGATCATGCGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACCTTCC 480
DB |||||
DB 421 CCAATCAAGATCATGCGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACCTTCC 480
QY 481 TGGTCATGATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAATCTCAATTT 540
DB |||||
DB 481 TGGTCATGATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAATCTCAATTT 540
QY 541 TCAACCTTCTCTGGCAGATGCCCTTAGCCACCAGTACCCTGCCCTTCCAGAGTGTGAATT 600
DB |||||
DB 541 TCAACCTTCTCTGGCAGATGCCCTTAGCCACCAGTACCCTGCCCTTCCAGAGTGTGAATT 600
QY 601 ACTAATGGGAACATGGCCATTGGAAACCATTCTTTGCAAGATAGTGATCTCCATAGATT 660
DB |||||
DB 601 ACTAATGGGAACATGGCCATTGGAAACCATTCTTTGCAAGATAGTGATCTCCATAGATT 660
QY 661 ACTATAACATGTTTCAACAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTG 720
DB |||||
DB 661 ACTATAACATGTTTCAACAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTG 720
QY 721 CAGTCTGCCACCCTGTCAAGGCTTAGATTTCGGTACTCCCGAAATGCCAAATTTATCA 780
DB |||||
DB 721 CAGTCTGCCACCCTGTCAAGGCTTAGATTTCGGTACTCCCGAAATGCCAAATTTATCA 780
QY 781 ATGTCGTGAACTGGATTCCTCTTCAAGCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
DB |||||
DB 781 ATGTCGTGAACTGGATTCCTCTTCAAGCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
QY 841 CAAATACAGGCAAGGTCATAGATTGTACATACTTCTCATCAACCTGGTACT 900
DB |||||
DB 841 CAAATACAGGCAAGGTCATAGATTGTACATACTTCTCATCAACCTGGTACT 900
QY 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCCCTTCAATATGCCAGTGTCTATCA 960
DB |||||
DB 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCCCTTCAATATGCCAGTGTCTATCA 960
QY 961 TTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTGGCT 1020
DB |||||
DB 961 TTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
DB |||||
DB 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
QY 1081 TGTTTCATCGTCTGTGGACTCCCATTCACATTTACGTATCAATTAAGCCTTGGTTACAA 1140
DB |||||
DB 1081 TGTTTCATCGTCTGTGGACTCCCATTCACATTTACGTATCAATTAAGCCTTGGTTACAA 1140
QY 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGGACTTCTGCAATCTCTAGGTACAA 1200
DB |||||
DB 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGGACTTCTGCAATCTCTAGGTACAA 1200
QY 1201 ACAGTGTCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAACAGATGTTCA 1260
DB |||||
DB 1201 ACAGTGTCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAACAGATGTTCA 1260
QY 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACATTCAGCAACAAATTCACCTCGAATTCGTG 1320
DB |||||
DB 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACATTCAGCAACAAATTCACCTCGAATTCGTG 1320

QY 1321 AGAACCTAGAGACCAACCCCTCCACGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
DB |||||
DB 1321 AGAACCTAGAGACCAACCCCTCCACGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAAGCAGAAAATGCTCGTTGCCCTTAAACAGGGTCTCATGCCATTTCCGACCTT 1440
DB |||||
DB 1381 AAAATCTGGAAGCAGAAAATGCTCGTTGCCCTTAAACAGGGTCTCATGCCATTTCCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGGAGG 1500
DB |||||
DB 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGGAGG 1500
QY 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCATCAACCTCTTTCTCTCTGGCCA 1560
DB |||||
DB 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCATCAACCTCTTTCTCTCTGGCCA 1560
QY 1561 CTCTCTCTGCACTTAGAGGACAGCCAAAGTAAGTGAGGACATTTGGGAAGAAAGGAA 1620
DB |||||
DB 1561 CTCTCTCTGCACTTAGAGGACAGCCAAAGTAAGTGAGGACATTTGGGAAGAAAGGAA 1620
QY 1621 TATACACACCGAGGAGTCCAGTTTGTGCAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
DB |||||
DB 1621 TATACACACCGAGGAGTCCAGTTTGTGCAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
QY 1681 GTATGTGAATTGAAGTCAATAAAAGGTGACCTTCTGTCTGTAAAGATTTTATTTCAA 1740
DB |||||
DB 1681 GTATGTGAATTGAAGTCAATAAAAGGTGACCTTCTGTCTGTAAAGATTTTATTTCAA 1740
QY 1741 GCATAATTTATGACTCAACAAAGAAACCAATCTTTTGTAAAGTTCCCGTAGTAACA 1800
DB |||||
DB 1741 GCATAATTTATGACTCAACAAAGAAACCAATCTTTTGTAAAGTTCCCGTAGTAACA 1800
QY 1801 CATAAAGTAAGTCTACCTCTCATCAAGCACCTTGAATGGAGGTCGAGTCTTTTATAG 1860
DB |||||
DB 1801 CATAAAGTAAGTCTACCTCTCATCAAGCACCTTGAATGGAGGTCGAGTCTTTTATAG 1860
QY 1861 TGTCTTTGCAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
DB |||||
DB 1861 TGTCTTTGCAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCTTCACTCCATTTCTTGGTTTGTATGTTTAAAAA 1980
DB |||||
DB 1921 TAGCATCTGGCTAAGGCATCTTCACTCCATTTCTTGGTTTGTATGTTTAAAAA 1980
QY 1981 AATAACATCTCTTCTCATCTAGCTCCATTAATTCGAAGGAGAGATTAGCATGAAAGTAA 2040
DB |||||
DB 1981 AATAACATCTCTTCTCATCTAGCTCCATTAATTCGAAGGAGAGATTAGCATGAAAGTAA 2040
QY 2041 TCTGAAACACAGTCTATGTCTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAAAATCTT 2100
DB |||||
DB 2041 TCTGAAACACAGTCTATGTCTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAAAATCTT 2100
QY 2101 CAAAAGATCATCATGGGGATTTTTCATCTTAGGCTTTTCTAGTGGTTTGTCTCTGGAAT 2160
DB |||||
DB 2101 CAAAAGATCATCATGGGGATTTTTCATCTTAGGCTTTTCTAGTGGTTTGTCTCTGGAAT 2160
QY 2161 TC 2162
DB |||
DB 2161 TC 2162

RESULT 2

US-09-883-839-1
; Sequence 1, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839

```
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063, 2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-1

Query Match      99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGAATTCGGCTATAGGCAGGAGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
DB 1 GGAATTCGGCTATAGGCAGGAGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTCTGTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGC 120
DB 61 CGCTCCTCTCTGTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGC 120
QY 121 GGCAGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGTGCTCTCTGGCTACCT 180
DB 121 GGCAGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGTGCTCTCTGGCTACCT 180
QY 181 CGCACAGCGGTCCCGCCGCGCTGAGTACCATGACGACGCGCTGCCCGCCACGAAAG 240
DB 181 CGCACAGCGGTCCCGCCGCGCTGAGTACCATGACGACGCGCTGCCCGCCACGAAAG 240
QY 241 CCAGCAATGCACTGATGCTTGGCTGCTACTCAAGTGTCTCCAGCACCCAGCCCGCGGTT 300
DB 241 CCAGCAATGCACTGATGCTTGGCTGCTACTCAAGTGTCTCCAGCACCCAGCCCGCGGTT 300
QY 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACTGACCGACCCATGCGGTCCGAAACCGCA 360
DB 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACTGACCGACCCATGCGGTCCGAAACCGCA 360
QY 361 CCAACCTGGCGGAGAGACAGCTGTCCCTCCGACCGGAGTCCCTCCATGATACCGG 420
DB 361 CCAACCTGGCGGAGAGACAGCTGTCCCTCCGACCGGAGTCCCTCCATGATACCGG 420
QY 421 CCATCAGATCATGCGCTCTACTCCATGCTGCTGCTGGGTGGGCTCTTCGAAACTTCC 480
DB 421 CCATCAGATCATGCGCTCTACTCCATGCTGCTGCTGGGTGGGCTCTTCGAAACTTCC 480
QY 481 TGGTCATGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACTTACATTT 540
DB 481 TGGTCATGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACTTACATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCTCCCTTCCAGAGTGTGAAT 600
DB 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCTCCCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTGTATCTCCATAGAT 660
DB 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTGTATCTCCATAGAT 660
QY 661 ACTATAACATGTTTACCAGCATATTTACCCCTCTGCACCATGAGTGTGTGATCGATACAT 720
DB 661 ACTATAACATGTTTACCAGCATATTTACCCCTCTGCACCATGAGTGTGTGATCGATACAT 720
QY 721 CAGTCTGCCACCGCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATCA 780
DB 721 CAGTCTGCCACCGCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATCA 780
QY 781 ATGCTGCAATGGATCTCTCTCAGCCATTTGCTCTCTGTAATGTTTCATGGCTACAA 840
DB 781 ATGCTGCAATGGATCTCTCTCAGCCATTTGCTCTCTGTAATGTTTCATGGCTACAA 840
```

```
DB 781 ATGCTGCAACTGGATCTCTCTCAGCCATTTGCTCTCTGTAATGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCATCCAACTGTACT 900
DB 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCATCCAACTGTACT 900
QY 901 GGGAAAACTCGTGAAGATCTGTGTTTTCATCTTGCCTTCATTATGCCAGTCTCATCA 960
DB 901 GGGAAAACTCGTGAAGATCTGTGTTTTCATCTTGCCTTCATTATGCCAGTCTCATCA 960
QY 961 TTACCGTGTCTATGGACTGATGATCTTGGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
DB 961 TTACCGTGTCTATGGACTGATGATCTTGGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAAAGGACAGGAATCTTCTGAAGGATCAACAGGATGCTGTGGTGGTGGCTG 1080
DB 1021 CCAAGAAAAAGGACAGGAATCTTCTGAAGGATCAACAGGATGCTGTGGTGGTGGCTG 1080
QY 1081 TGTTCATCTGCTGTGGACTCCCATTTACATTTACGTTCATTTAAAGCCCTTGGTTACAA 1140
DB 1081 TGTTCATCTGCTGTGGACTCCCATTTACATTTACGTTCATTTAAAGCCCTTGGTTACAA 1140
QY 1141 TCCCAAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
DB 1141 TCCCAAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAATCTTCAACAGATCTTCA 1260
DB 1201 ACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAATCTTCAACAGATCTTCA 1260
QY 1261 GAGAGTTCTGTATPCCAACTCTTCCAACTTCCAACTTCCAACTTCCAACTTCCAACTTCC 1320
DB 1261 GAGAGTTCTGTATPCCAACTCTTCCAACTTCCAACTTCCAACTTCCAACTTCCAACTTCC 1320
QY 1321 AGAACACTAGACACCCCTCCACGGCCAAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
DB 1321 AGAACACTAGACACCCCTCCACGGCCAAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAAGCAGAACTGCTCCGTGCTTAAAGGGTCTCATGCCATTCGACCTT 1440
DB 1381 AAAATCTGGAAGCAGAACTGCTCCGTGCTTAAAGGGTCTCATGCCATTCGACCTT 1440
QY 1441 CACCAAGCTTTAGAAAGCCCATGATGTGGAAGCAGGTTCTTCAAGAAATGTGTAGAGG 1500
DB 1441 CACCAAGCTTTAGAAAGCCCATGATGTGGAAGCAGGTTCTTCAAGAAATGTGTAGAGG 1500
QY 1501 CTCTAATTTCTTAGGAAAGTCCCTACTTTTAGTCTCATCAACCTCTTCTCTCTGCGCA 1560
DB 1501 CTCTAATTTCTTAGGAAAGTCCCTACTTTTAGTCTCATCAACCTCTTCTCTCTGCGCA 1560
QY 1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAGTAAAGTGGAGATTTGGAAAGAAAGAA 1620
DB 1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAGTAAAGTGGAGATTTGGAAAGAAAGAA 1620
QY 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
DB 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
QY 1681 GTATGTAATGTAAGTCAATATAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTCAA 1740
DB 1681 GTATGTAATGTAAGTCAATATAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTCAA 1740
QY 1741 GCAAAATTTATGACCTCAAAAGAAAGAACCATCTTTTGTAAAGTTCACCGTAGTAACA 1800
DB 1741 GCAAAATTTATGACCTCAAAAGAAAGAACCATCTTTTGTAAAGTTCACCGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
DB 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
QY 1861 TGTTTTTCGAAGGGAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920
DB 1861 TGTTTTTCGAAGGGAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920
```

QY	1921	TAGCATCTGGCTAAGSCATCATTTTCACTTCCATTTCTTGGTTTGTATTGTTTAAAAA	1980
Db	1921	TAGCATCTGGCTAAGSCATCATTTTCACTTCCATTTCTTGGTTTGTATTGTTTAAAAA	1980
QY	1981	AATAACATCTCTTTTCATCTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA	2040
Db	1981	AATAACATCTCTTTTCATCTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA	2040
QY	2041	TCGAAACACAGTCATGTGTANCTGTAGAAAAGTTGATTCATGCACTNCAATACTTT	2100
Db	2041	TCGAAACACAGTCATGTGTANCTGTAGAAAAGTTGATTCATGCACTNCAATACTTT	2100
QY	2101	CCAAAGAGTCATCATGGGGGATTTTTCATCTTAGCTTTTCAAGTGGTTTCTTGGAAAT	2160
Db	2101	CCAAAGAGTCATCATGGGGGATTTTTCATCTTAGCTTTTCAAGTGGTTTCTTGGAAAT	2160
QY	2161	TC 2162	
Db	2161	TC 2162	
RESULT 3			
US-10-225-567A-185			
; Sequence 185, Application US/10225567A			
; Publication No. US20030113798A1			
; GENERAL INFORMATION:			
; APPLICANT: Lifespan Biosciences			
; APPLICANT: Brown, Joseph P.			
; APPLICANT: Burner, Glenna C.			
; APPLICANT: Roush, Christine L.			
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS			
; FILE REFERENCE: 1920-4-4			
; CURRENT APPLICATION NUMBER: US/10/225,567A			
; CURRENT FILING DATE: 2001-12-19			
; PRIOR APPLICATION NUMBER: 60/257,144			
; PRIOR FILING DATE: 2000-12-19			
; NUMBER OF SEQ ID NOS: 2292			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 185			
; LENGTH: 2162			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
; FEATURE:			
; NAME/KEY: misc_feature			
; LOCATION: (2063)..(2063)			
; OTHER INFORMATION: unknown nucleotide			
; FEATURE:			
; NAME/KEY: misc_feature			
; LOCATION: (2091)..(2091)			
; OTHER INFORMATION: unknown nucleotide			
US-10-225-567A-185			
Query Match 99.8%; Score 2158.4; DB 5; Length 2162;			
Best Local Similarity 100.0%; Pred. No. 0;			
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;			
QY	1	GGAAATTCGGCTATAGGCGAGAGAGAAATGTCAAGATGCTCAGCTCGGTGCCCTCCGCTGA	60
Db	1	GGAAATTCGGCTATAGGCGAGAGAGAAATGTCAAGATGCTCAGCTCGGTGCCCTCCGCTGA	60
QY	61	CGCTCCTCTCTGTCTCAGCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC	120
Db	61	CGCTCCTCTCTGTCTCAGCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC	120
QY	121	GGCGAAAGGAAGCGGCTGAGGCGCTTGGAAACCGAAAAGTCTCGGTGCTCCCTGGCTACCT	180
Db	121	GGCGAAAGGAAGCGGCTGAGGCGCTTGGAAACCGAAAAGTCTCGGTGCTCCCTGGCTACCT	180
QY	181	CGCACAGCGGTGCCCGCGCGGTGAGTCCATGACAGCAGCGGTGCCCGCACGAAACG	240
Db	181	CGCACAGCGGTGCCCGCGCGGTGAGTCCATGACAGCAGCGGTGCCCGCACGAAACG	240

QY	241	CCAGCAATTGCACTGATGCCCTTGGCGTACTCAAGTTGCTCCCCAGCACCCAGCCCGGTT	300
Db	241	CCAGCAATTGCACTGATGCCCTTGGCGTACTCAAGTTGCTCCCCAGCACCCAGCCCGGTT	300
QY	301	CCTGGGTCAAATTGTGCCACTTAGATGCAACCTGACCGACCCATGCGGTCCGAAACCGCA	360
Db	301	CCTGGGTCAAATTGTGCCACTTAGATGCAACCTGTCGACCCATGCGGTCCGAAACCGCA	360
QY	361	CCAACTCGGGGGAGAGACAGACCTGTCCTCCGACCGGAGTCCCTCCATGATCACGG	420
Db	361	CCAACTCGGGGGAGAGACAGACCTGTCCTCCGACCGGAGTCCCTCCATGATCACGG	420
QY	421	CCATCAGCATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAAACTTCC	480
Db	421	CCATCAGCATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAAACTTCC	480
QY	481	TGGTCATGTATGTGATTTGTTCAGATACACCAAGATGAAGACTGCCCAACATCTACATTT	540
Db	481	TGGTCATGTATGTGATTTGTTCAGATACACCAAGATGAAGACTGCCCAACATCTACATTT	540
QY	541	TCAACCTTGTCTCTGGCAGATGCTTTAGCCACCCAGTACCTGCTGCCCTTCCAGAGTGTGAATT	600
Db	541	TCAACCTTGTCTCTGGCAGATGCTTTAGCCACCCAGTACCTGCTGCCCTTCCAGAGTGTGAATT	600
QY	601	ACCTAAATGGGAAACATGGCCATTTTGAACCATCTCTTTGCAAGATAGTGAATCTCCATAGATT	660
Db	601	ACCTAAATGGGAAACATGGCCATTTTGAACCATCTCTTTGCAAGATAGTGAATCTCCATAGATT	660
QY	661	ACTATAACATGTTTCAACAGCATATTTCACCTCTGCACCATGATGTTGATTCATATATG	720
Db	661	ACTATAACATGTTTCAACAGCATATTTCACCTCTGCACCATGATGTTGATTCATATATG	720
QY	721	CAGTCTGCCACCTCTCAAGCGCTTAGATTTCCTGAGCAATGGTCTTCTGTAATGTTTCATGGCTACAA	780
Db	721	CAGTCTGCCACCTCTCAAGCGCTTAGATTTCCTGAGCAATGGTCTTCTGTAATGTTTCATGGCTACAA	780
QY	781	ATGCTCTGCAACTGGATCTCTCTTCCAGCAATGGTCTTCTGTAATGTTTCATGGCTACAA	840
Db	781	ATGCTCTGCAACTGGATCTCTCTTCCAGCAATGGTCTTCTGTAATGTTTCATGGCTACAA	840
QY	841	CAAAATACAGCAAGGTTCCATAGATTGTACACTAACATTCTCTCATCCAACTGGTACT	900
Db	841	CAAAATACAGCAAGGTTCCATAGATTGTACACTAACATTCTCTCATCCAACTGGTACT	900
QY	901	GGGAAACCTCGTGAAGATCTGTTTTCATCTTCCGCTTCAATTATGCGAGTGCATCA	960
Db	901	GGGAAACCTCGTGAAGATCTGTTTTCATCTTCCGCTTCAATTATGCGAGTGCATCA	960
QY	961	TTACCGTGTGCTATGCACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Db	961	TTACCGTGTGCTATGCACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
QY	1021	CCAAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTTGGTGGTGGCTG	1080
Db	1021	CCAAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTTGGTGGTGGCTG	1080
QY	1081	TGTTTCATCGTCTGCTGGACTCCCATTCATTTAGTGTATTAAGCTTTGGTTTACAA	1140
Db	1081	TGTTTCATCGTCTGCTGGACTCCCATTCATTTAGTGTATTAAGCTTTGGTTTACAA	1140
QY	1141	TCCAGAAACTACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTACACAA	1200
Db	1141	TCCAGAAACTACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTACACAA	1200
QY	1201	ACAGTGTGCTCAACCCAGTCTTTTATGCAATTTCTGGAAGAACTTTCAACAGATGCTTCA	1260
Db	1201	ACAGTGTGCTCAACCCAGTCTTTTATGCAATTTCTGGAAGAACTTTCAACAGATGCTTCA	1260
QY	1261	GAGAGTCTGTATCCCAACCTCTTCCACATTGAGCAACAAACTCCACTCGAATTCGTC	1320
Db	1261	GAGAGTCTGTATCCCAACCTCTTCCACATTGAGCAACAAACTCCACTCGAATTCGTC	1320
QY	1321	AGAACTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGCTAG	1380

```

1321 AGAACACTAGAGACCCCTCCACGGCCATATACAGTGGATAGAACTAATCATCAGCTAG 1380
1381 AAAATCTGGAAGCAGAAAATGCTCCGTTGGCCCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
1381 AAAATCTGGAAGCAGAAAATGCTCCGTTGGCCCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
1441 CACCAAGCTTAGAAGCAGCAATGATGTGGAAGCAGGTTGCTTCAAGAATGTGTAGAGG 1500
1441 CACCAAGCTTAGAAGCAGCAATGATGTGGAAGCAGGTTGCTTCAAGAATGTGTAGAGG 1500
1501 CTCTAATCTCTAGGAAGGCTCTACTTTTAGTGTATCCAACTCTTTCTCTCTGCGCA 1560
1501 CTCTAATCTCTAGGAAGGCTCTACTTTTAGTGTATCCAACTCTTTCTCTCTGCGCA 1560
1561 CTCTGCTCTGCACATTTAGAGGAGCAGCCAAAAGTAAGTGGAGCATTTGGAAGAAAAGGAA 1620
1561 CTCTGCTCTGCACATTTAGAGGAGCAGCCAAAAGTAAGTGGAGCATTTGGAAGAAAAGGAA 1620
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
1681 GTATGTGAATTTGAAGTCAATCAAAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTCAA 1740
1681 GTATGTGAATTTGAAGTCAATCAAAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTCAA 1740
1741 GCAAAATATTTATGACCTCAACAAAGAGAAACCAATCTTTTGTAAAGTTCACCGTAGTAACA 1800
1741 GCAAAATATTTATGACCTCAACAAAGAGAAACCAATCTTTTGTAAAGTTCACCGTAGTAACA 1800
1801 CATAAAGTAATCTACTCTGATCAAGCACCTTGAATGGAAGGTCGAGTCTTTTAG 1860
1801 CATAAAGTAATCTACTCTGATCAAGCACCTTGAATGGAAGGTCGAGTCTTTTAG 1860
1861 TGTTTTTGAAGGGAATGAATCAATTTATTTTATTTAGCTTTTAACTTCAACTTAAAT 1920
1861 TGTTTTTGAAGGGAATGAATCAATTTATTTTATTTAGCTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGCATCAATTTACCTCCATTTCTGGTTTGTATTTGTTTAAAAA 1980
1921 TAGCATCTGGCTAAGGCATCAATTTACCTCCATTTCTGGTTTGTATTTGTTTAAAAA 1980
1981 AATAACATCTTTTATCTAGTCCATAATTGCAAGGAGAGATTAGCATGAAGGTAA 2040
1981 AATAACATCTTTTATCTAGTCCATAATTGCAAGGAGAGATTAGCATGAAGGTAA 2040
2041 TCTGAAACACAGTCATGTGTCTGATGAGAAAGGTTGATTTCTCATGCACTNCAAAATCTT 2100
2041 TCTGAAACACAGTCATGTGTCTGATGAGAAAGGTTGATTTCTCATGCACTNCAAAATCTT 2100
2101 CCAAGAGTCAATATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTCTCTGGAAT 2160
2101 CCAAGAGTCAATATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTCTCTGGAAT 2160
2161 TC 2162
2161 TC 2162
```

```

RESULT 4
US-10-305-720-1379
; Sequence 1379, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
```

```

; SOFTWARE: PERL Program
; SEQ ID NO 1379
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 9452072
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1) ... (2162)
; OTHER INFORMATION: a, t, c, g, or other
; US-10-305-720-1379

Query Match 99.8%; Score 2158.4; DB 6; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGAATTCGGGCTATAGGCAGAGGAGAAATGTCAAGTCTCAGCTCGGTCCCTCCGCTGA 60
DB 1 GGAATTCGGGCTATAGGCAGAGGAGAAATGTCAAGTCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTCTCTCAGCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGC 120
DB 61 CGCTCCTCTCTCTCAGCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGC 120
QY 121 GCGGAAAGGAACGCGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
DB 121 GCGGAAAGGAACGCGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
QY 181 CGCAGACGCGTCCCGCCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCCCAGCAACG 240
DB 181 CGCAGACGCGTCCCGCCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCCCAGCAACG 240
QY 241 CAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCAGCCCGCGTT 300
DB 241 CAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCAGCCCGCGTT 300
QY 301 CTTGGTCAACTTTGTCCTTCTAGATGGCAACCTGACCCAGCAGCCAGTCCGAAACGCA 360
DB 301 CTTGGTCAACTTTGTCCTTCTAGATGGCAACCTGTCGACCCATGGGTCCGAAACGCA 360
QY 361 CCAACCTGGCGGGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCATGATCACGG 420
DB 361 CCAACCTGGCGGGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCATGATCACGG 420
QY 421 CCATCAAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACCTTCC 480
DB 421 CCATCAAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACCTTCC 480
QY 481 TGGTCAATGTATGTGATTTGTTCAGATACCAAGATGAAGTGCACCAACATCTACATTT 540
DB 481 TGGTCAATGTATGTGATTTGTTCAGATACCAAGATGAAGTGCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCCTGCGCTTCCAGAGTGTGAATT 600
DB 541 TCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCCTGCGCTTCCAGAGTGTGAATT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGCAGATAGTATCTCCATAGATT 660
DB 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGCAGATAGTATCTCCATAGATT 660
QY 661 ACTATAACATGTTTACCAGCATATTCACCTCTGCAACCATGAGTGTGTGATCGATACATTG 720
DB 661 ACTATAACATGTTTACCAGCATATTCACCTCTGCAACCATGAGTGTGTGATCGATACATTG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGCTACTCCCGAAATGCCAAATATATCA 780
DB 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGCTACTCCCGAAATGCCAAATATATCA 780
QY 781 ATGCTGCAACCTGGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
DB 781 ATGCTGCAACCTGGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
```


QY 841 CAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTCTCTCATCCAACTGGTACT 900
DB |||||
QY 841 CAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTCTCTCATCCAACTGGTACT 900
DB |||||
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTGCCCTTCATTATGCCAGTGCATCA 960
DB |||||
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTGCCCTTCATTATGCCAGTGCATCA 960
DB |||||
QY 961 TTACCGTGTGCTATGGAATGATCTTCCGCTCAAGAGTGTCCGATGCTCTCGGCT 1020
DB |||||
QY 1021 CAAAGAAAAGACAGGAATCTTCGAGGATCACAGGATGCTGGTGGTGGCTG 1080
DB |||||
QY 1021 CCAAGAAAAGACAGGAATCTTCGAGGATCACAGGATGCTGGTGGTGGCTG 1080
DB |||||
QY 1081 TGTTCATCGTCTGCTGAGCTCCCATTCACATTTACGTCACTATAAGCTTTGGTTACAA 1140
DB |||||
QY 1081 TGTTCATCGTCTGCTGAGCTCCCATTCACATTTACGTCACTATAAGCTTTGGTTACAA 1140
DB |||||
QY 1141 TCCAGAAACTAGTTCAGACTGTTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAAA 1200
DB |||||
QY 1141 TCCAGAAACTAGTTCAGACTGTTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAAA 1200
DB |||||
QY 1201 ACAGTGCCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACCTTCAACAGTCTTCA 1260
DB |||||
QY 1201 ACAGTGCCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACCTTCAACAGTCTTCA 1260
DB |||||
QY 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTAGGCAACAACTCCACTCGAATTCGTC 1320
DB |||||
QY 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTAGGCAACAACTCCACTCGAATTCGTC 1320
DB |||||
QY 1321 AGAACACTAGAGACCAACCCCTCCAGGCCAATACAGTGATGAGAACTAATCATCACTAG 1380
DB |||||
QY 1321 AGAACACTAGAGACCAACCCCTCCAGGCCAATACAGTGATGAGAACTAATCATCACTAG 1380
DB |||||
QY 1381 AAAATCTGAAGCAGAAACTGCTCCGTTGCCCTTAACAGGGTCTCATGCCATTCGACCTT 1440
DB |||||
QY 1381 AAAATCTGAAGCAGAAACTGCTCCGTTGCCCTTAACAGGGTCTCATGCCATTCGACCTT 1440
DB |||||
QY 1441 CACCAAGCTTAGAAGCCACATGTATGTGAAGCAGGTTGCTTCAAGAAATGTGAGGAG 1500
DB |||||
QY 1441 CACCAAGCTTAGAAGCCACATGTATGTGAAGCAGGTTGCTTCAAGAAATGTGAGGAG 1500
DB |||||
QY 1501 CTCTAATCTCTAGGAAAGTGCTACTTTTAGGTCAATCAAACTCTTCTCTGTGGCCA 1560
DB |||||
QY 1501 CTCTAATCTCTAGGAAAGTGCTACTTTTAGGTCAATCAAACTCTTCTCTGTGGCCA 1560
DB |||||
QY 1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAAGTAGTGGAGCATTTTGAAGGAAAGGA 1620
DB |||||
QY 1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAAGTAGTGGAGCATTTTGAAGGAAAGGA 1620
DB |||||
QY 1621 TATACACACCGAGGAGTCCAGTTTGTGAAGACACCCAGTGGAAACCAACCCATCGTG 1680
DB |||||
QY 1621 TATACACACCGAGGAGTCCAGTTTGTGAAGACACCCAGTGGAAACCAACCCATCGTG 1680
DB |||||
QY 1681 GTATGTGAATGAAGTCATATAAAAGGTGACCCCTCTGTCTGTGAAGATTTATTTTCAA 1740
DB |||||
QY 1681 GTATGTGAATGAAGTCATATAAAAGGTGACCCCTCTGTCTGTGAAGATTTATTTCAA 1740
DB |||||
QY 1741 GCAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCAACCTAGTAAACA 1800
DB |||||
QY 1741 GCAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCAACCTAGTAAACA 1800
DB |||||
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAGGTCCGAGTCTTTTTAG 1860
DB |||||
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAGGTCCGAGTCTTTTTAG 1860
DB |||||
QY 1861 TGTTTTTGCAAGGGAATGAATCCATTATTTCTATTTTAGACTTTTAACTTTAACTTTAAAT 1920
DB |||||
QY 1861 TGTTTTTGCAAGGGAATGAATCCATTATTTCTATTTTAGACTTTTAACTTTAACTTTAAAT 1920
DB |||||

QY 1921 TAGCATCGCTAAGGCATCATTTTTCACCTCCATTTCTTGGTTTGTATTTTAAAAA 1980
DB |||||
QY 1921 TAGCATCGCTAAGGCATCATTTTTCACCTCCATTTCTTGGTTTGTATTTTAAAAA 1980
DB |||||
QY 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTCGAAGGGAAGAGATTAGCATGAAGGTAA 2040
DB |||||
QY 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTCGAAGGGAAGAGATTAGCATGAAGGTAA 2040
DB |||||
QY 2041 TCTGAACACAGTCATGTCTCANCCTGTAGAAAGGTTGATTCCTCATGCACCTNCAATACCT 2100
DB |||||
QY 2041 TCTGAACACAGTCATGTCTCANCCTGTAGAAAGGTTGATTCCTCATGCACCTNCAATACCT 2100
DB |||||
QY 2101 CCAAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTCAAGTGTTCCTGGAAAT 2160
DB |||||
QY 2101 CCAAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTCAAGTGTTCCTGGAAAT 2160
DB |||||
QY 2161 TC 2162
DB |||
QY 2161 TC 2162
DB |||
RESULT 5
US-10-500-050-1
; Sequence 1, Application US/10500050
; Publication No. US20050106568A1
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Method of Quantifying Nucleic Acid And Kit for Quantifying Nucleic
; FILE REFERENCE: P02-0156
; CURRENT APPLICATION NUMBER: US/10/500,050
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: JP 2001-400280
; PRIOR FILING DATE: 2001-12-28
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n stands for any base
US-10-500-050-1
Query Match 99.8%; Score 2158.4; DB 9; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAAGATGCTCAGCTCGGTCCCTCCGCTGA 60
DB |||||
QY 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAAGATGCTCAGCTCGGTCCCTCCGCTGA 60
DB |||||
QY 61 CGCTCCTCTGTCTCAGCCAGGACTGTTTCTGTAAAGAAACAGCAGAGAGCTGTGCAGC 120
DB |||||
QY 61 CGCTCCTCTGTCTCAGCCAGGACTGTTTCTGTAAAGAAACAGCAGAGAGCTGTGCAGC 120
DB |||||
QY 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTGGCTACCT 180
DB |||||
QY 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTGGCTACCT 180
DB |||||
QY 181 CGCACAGCGGTGCCCGCGCGCGTCAAGTACCATCGACAGCAGCGCTGCCCCACGAAACG 240
DB |||||
QY 181 CGCACAGCGGTGCCCGCGCGCGTCAAGTACCATCGACAGCAGCGCTGCCCCACGAAACG 240
DB |||||
QY 241 CCAGCAATTGCACTGATGCTTTGGCGTACTCAAGTTGCTTCCAGCAGCAGCCAGCCCGGTT 300
DB |||||
QY 241 CCAGCAATTGCACTGATGCTTTGGCGTACTCAAGTTGCTTCCAGCAGCAGCCAGCCCGGTT 300
DB |||||
QY 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACTGTCCGACCCATGCGGTCCGAAACGCA 360
DB |||||
QY 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACTGTCCGACCCATGCGGTCCGAAACGCA 360
DB |||||
QY 361 CCAACTGGGCGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
DB |||||

Db 361 CCAACCTGGGGGAGAGACAGCTGTGCGCTCCGACCGGAGTCCCTCATGATCACGG 420
Qy
Db 421 CCATCAGCATATGGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACTTCC 480
Db 421 CCATCAGCATATGGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACTTCC 480
Qy 481 TGGTCATGTATGTGATGTGATGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATGTGATGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Qy 541 TCACCTTTGCTCTGGCAGATGCTTAGCCACCAAGTACCCCTCCAGAGTGTGAATT 600
Db 541 TCACCTTTGCTCTGGCAGATGCTTAGCCACCAAGTACCCCTCCAGAGTGTGAATT 600
Qy 601 ACCTAATGGGAACATGCGCATTTGGAAACCATCTTTGCAAGATAGTGTATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGCGCATTTGGAAACCATCTTTGCAAGATAGTGTATCTCCATAGATT 660
Qy 661 ACTATACATGTTCCACGAGATATTCACCCCTCTGACCATGAGTGTGATCGATACATTG 720
Db 661 ACTATACATGTTCCACGAGATATTCACCCCTCTGACCATGAGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATATCA 780
Qy 781 ATGTCGCACTGATCTCTCTTCAGCCATGTGTCCTCTGTAATGTTCAATGGCTACAA 840
Db 781 ATGTCGCACTGATCTCTCTTCAGCCATGTGTCCTCTGTAATGTTCAATGGCTACAA 840
Qy 841 CAAATACAGGCAAGTTCATAGATTGTACACTAACTCTCATCCCAACCTGGTACT 900
Db 841 CAAATACAGGCAAGTTCATAGATTGTACACTAACTCTCATCCCAACCTGGTACT 900
Qy 901 GGGAAACCTCGTGAAGATCTGTGTTTCATCTTCGCTTCATTTATGCCAGTGTCTATCA 960
Db 901 GGGAAACCTCGTGAAGATCTGTGTTTCATCTTCGCTTCATTTATGCCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCGCT 1020
Db 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCGCT 1020
Qy 1021 CCAAGAAAGGACAGGAATCTTCCGAGGATCAAGAGTGTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGACAGGAATCTTCCGAGGATCAAGAGTGTGGTGGTGGCTG 1080
Qy 1081 TGTTTCATGCTGTGGACTGCCATTCACATTTACGTCATATTAAGCCCTTGGTTACAA 1140
Db 1081 TGTTTCATGCTGTGGACTGCCATTCACATTTACGTCATATTAAGCCCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTPACGTTCCAGACTGTTTCTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
Db 1141 TCCAGAAACTPACGTTCCAGACTGTTTCTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
Qy 1201 ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAACCTTCAAAGCTTCTCA 1260
Db 1201 ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAACCTTCAAAGCTTCTCA 1260
Qy 1261 GAGAGTTCTGTATCCCACTCTTCCCACTTTGAGCAACAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCACTCTTCCCACTTTGAGCAACAACTCCACTCGAATTCGTC 1320
Qy 1321 AGAACACTAGAGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAAACTGCTCGTTGCCCTAACAGGCTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAAACTGCTCGTTGCCCTAACAGGCTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAGCCACCATGATGTGGAAGCAGGTTGCTTCAAGAACTGTAGGAGG 1500

Db 1441 CACCAAGCTTAGAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGAGG 1500
Qy
Db 1501 CTTAAATCTCTAGGAAAGTGCTACTTTTAGTGTATCCAACTCTTTCTCTCTGGCCA 1560
Db 1501 CTTAAATCTCTAGGAAAGTGCTACTTTTAGTGTATCCAACTCTTTCTCTCTGGCCA 1560
Qy 1561 CTTCTGCTCTGCACATTTAGAGGACAGCCAAAAGTAAGTGGAGCATTTGGAGGAAGGAA 1620
Db 1561 CTTCTGCTCTGCACATTTAGAGGACAGCCAAAAGTAAGTGGAGCATTTGGAGGAAGGAA 1620
Qy 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGCACCCAGTGGAAACCAACCCATCGT 1680
Db 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGCACCCAGTGGAAACCAACCCATCGT 1680
Qy 1681 GTATGTGAATTGAAGTCATCATAAAAGGTGACCCCTTCTGTCTGTAAAGATTTATTTCAA 1740
Db 1681 GTATGTGAATTGAAGTCATCATAAAAGGTGACCCCTTCTGTCTGTAAAGATTTATTTCAA 1740
Qy 1741 GCAAAATATTTATGACCTCAACAAAAGAAACCAATCTTTTGTAAAGTTCACCGTAGTAACA 1800
Db 1741 GCAAAATATTTATGACCTCAACAAAAGAAACCAATCTTTTGTAAAGTTCACCGTAGTAACA 1800
Qy 1801 CATAAAGTAAATGCTACTCTGATCAAGCACCTTGAATGGAAGGTCGGAGTCTTTTAG 1860
Db 1801 CATAAAGTAAATGCTACTCTGATCAAGCACCTTGAATGGAAGGTCGGAGTCTTTTAG 1860
Qy 1861 TGTTTTGGCAAGGAAATGAATCCATTTATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTGGCAAGGAAATGAATCCATTTATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTGTTTAAAAA 1980
Qy 1981 AATAACATCTCTTTCTAGCTCCATTAATGCAAGGAAGATAGCATGAAGGTAA 2040
Db 1981 AATAACATCTCTTTCTAGCTCCATTAATGCAAGGAAGATAGCATGAAGGTAA 2040
Qy 2041 TCTGAAACACAGTCATGTGTGCANCTGTAGAAAGTTGATTTCTCATGCATNCAATACTT 2100
Db 2041 TCTGAAACACAGTCATGTGTGCANCTGTAGAAAGTTGATTTCTCATGCATNCAATACTT 2100
Qy 2101 CCAAGAGTCATCATGGGGATTTTTCATTTAGGCTTTTTCAGTGGTTTGTCTCGAAT 2160
Db 2101 CCAAGAGTCATCATGGGGATTTTTCATTTAGGCTTTTTCAGTGGTTTGTCTCGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 6

US-09-883-839-3
; Sequence 3, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: Laforge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

; NAME/KEY: misc_feature									
; LOCATION: 2063, 2091									
; OTHER INFORMATION: n = A,T,C or G									
US-09-883-839-3									
Query Match									
Best Local Similarity 99.8%; Score 2156.8; DB 3; Length 2162;									
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;									
QY	1	GGAAATTCGGCTATAGGCAGAGAGAAATGTACAGTCTCAGTCCGCTCCCTCCGCTGA	60						
DB	1	GGAAATTCGGCTATAGGCAGAGAGAAATGTACAGTCTCAGTCCGCTCCCTCCGCTGA	60						
QY	61	CGCTCCTCTCTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGAGCTGTGGCAGC	120						
DB	61	CGCTCCTCTCTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGAGCTGTGGCAGC	120						
QY	121	GGCGAAAGGAGCGGTGAGGCGCTTGGAAACCGAAAGTCTCGGTCTCGGTACCT	180						
DB	121	GGCGAAAGGAGCGGTGAGGCGCTTGGAAACCGAAAGTCTCGGTCTCGGTACCT	180						
QY	181	CGCAGACGGTGCCTGGCGCGCTCAGTACCATGGACAGCAGCGTGCCTCCACGAAAG	240						
DB	181	CGCAGACGGTGCCTGGCGCGCTCAGTACCATGGACAGCAGCGTGCCTCCACGAAAG	240						
QY	241	CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGGCCCGCAGCAGCCCGCGTT	300						
DB	241	CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGGCCCGCAGCAGCCCGCGTT	300						
QY	301	CTGGGTCAACTGTGTCCTTGTAGTGGCAACTGACACCGACCGGTCCGAAACCGCA	360						
DB	301	CTGGGTCAACTGTGTCCTTGTAGTGGCAACTGACACCGACCGGTCCGAAACCGCA	360						
QY	361	CCAACTGGCGGGAGACAGCCTGTGCCCTCCGACCGGCAGTCCCTCCATGATCAAG	420						
DB	361	CCAACTGGCGGGAGACAGCCTGTGCCCTCCGACCGGCAGTCCCTCCATGATCAAG	420						
QY	421	CCATCAGATCATGCGCCCTTACTCCATCGTGTGGTGGGGCTCTTCGGAACCTTCC	480						
DB	421	CCATCAGATCATGCGCCCTTACTCCATCGTGTGGTGGGGCTCTTCGGAACCTTCC	480						
QY	481	TGGTCATGTATGTGTTGTGATGATACCAAGATGAAGACTGCCAACATCTCATTT	540						
DB	481	TGGTCATGTATGTGTTGTGATGATACCAAGATGAAGACTGCCAACATCTCATTT	540						
QY	541	TCAACCTTCTCTGGCAGATGCCCTTAGCCACCAAGTACCCTTCCAGAGTGTGAATT	600						
DB	541	TCAACCTTCTCTGGCAGATGCCCTTAGCCACCAAGTACCCTTCCAGAGTGTGAATT	600						
QY	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCCATAGATT	660						
DB	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCCATAGATT	660						
QY	661	ACTATAACATGTTCCACGACATATTCACCTCTGCAACCATGAGTGTGATCGATATTG	720						
DB	661	ACTATAACATGTTCCACGACATATTCACCTCTGCAACCATGAGTGTGATCGATATTG	720						
QY	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCGGTACTCCCGAAATGCCAAATTTATCA	780						
DB	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCGGTACTCCCGAAATGCCAAATTTATCA	780						
QY	781	ATGCTGCAACCTGATCTCTTTCAGGCAATGGTCTTCTGTAATGTTTCATGGCTACAA	840						
DB	781	ATGCTGCAACCTGATCTCTTTCAGGCAATGGTCTTCTGTAATGTTTCATGGCTACAA	840						
QY	841	CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCAACCTGTACT	900						
DB	841	CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCAACCTGTACT	900						
QY	901	GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAITATGCGAGTCTCATCA	960						
DB	901	GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAITATGCGAGTCTCATCA	960						
QY	961	TTACCGTGTCTATGACTGATGATCTTGCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020						
DB	961	TTACCGTGTCTATGACTGATGATCTTGCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020						
QY	1021	CCAAAGAAAAGGACAGGAATCTTGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080						
DB	1021	CCAAAGAAAAGGACAGGAATCTTGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080						
QY	1081	TGTTTCATCGTCTGGACTCCCATTCATTTAGTTCATCAATTAAGCCCTTGGTTACAA	1140						
DB	1081	TGTTTCATCGTCTGGACTCCCATTCATTTAGTTCATCAATTAAGCCCTTGGTTACAA	1140						
QY	1141	TCCAGAAATACAGTTCCAGACTGTTTCTTGCACTTCTGCACTTCTAGTGTACACAA	1200						
DB	1141	TCCAGAAATACAGTTCCAGACTGTTTCTTGCACTTCTGCACTTCTAGTGTACACAA	1200						
QY	1201	ACAGTCTGCTCAACCCAGTCCCTTATGCAATTTCTGGATGAAGAACTTCAACGATGTTCA	1260						
DB	1201	ACAGTCTGCTCAACCCAGTCCCTTATGCAATTTCTGGATGAAGAACTTCAACGATGTTCA	1260						
QY	1261	GAGATTTCTGATCCCAACCTTCCAACTTGGACAACTCCACTCGAATTCGTC	1320						
DB	1261	GAGATTTCTGATCCCAACCTTCCAACTTGGACAACTCCACTCGAATTCGTC	1320						
QY	1321	AGAACCTAGAGACCAACCTCCACGCGCAATACAGTGGATAGAACTTAATCATCAGCTAG	1380						
DB	1321	AGAACCTAGAGACCAACCTCCACGCGCAATACAGTGGATAGAACTTAATCATCAGCTAG	1380						
QY	1381	AAATCTCTGGAAGCAGAAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCCATTCGACCTT	1440						
DB	1381	AAATCTCTGGAAGCAGAAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCCATTCGACCTT	1440						
QY	1441	CACCAAGCTTAGAAGCCACCTGATGTGGAAAGAGTGTCTCAAGATGTGTAGGAG	1500						
DB	1441	CACCAAGCTTAGAAGCCACCTGATGTGGAAAGAGTGTCTCAAGATGTGTAGGAG	1500						
QY	1501	CTCTAATTTCTTAGAAAGTGTCTTCTTAGGTCTCACTCAACCTCTTCTCTCTGCGCA	1560						
DB	1501	CTCTAATTTCTTAGAAAGTGTCTTCTTAGGTCTCACTCAACCTCTTCTCTCTGCGCA	1560						
QY	1561	CTCTCTCTGCAATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGAAGAAAGGAA	1620						
DB	1561	CTCTCTCTGCAATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGAAGAAAGGAA	1620						
QY	1621	TATACACACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG	1680						
DB	1621	TATACACACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG	1680						
QY	1681	GTATGTGAATTCGAAGTCAATATAAAGGTGACCTTCTCTGTGAAGATTTTATTTTCAA	1740						
DB	1681	GTATGTGAATTCGAAGTCAATATAAAGGTGACCTTCTCTGTGAAGATTTTATTTTCAA	1740						
QY	1741	GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA	1800						
DB	1741	GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA	1800						
QY	1801	CATAAGTAAATGCTACCTCTCATCAAGCACCTTGAATGGAGGTCCTGCTTTTAG	1860						
DB	1801	CATAAGTAAATGCTACCTCTCATCAAGCACCTTGAATGGAGGTCCTGCTTTTAG	1860						
QY	1861	TGTTTTTTCAGGGAATGAATCCATTTTCTATTTTAGACTTTTAACTTCAACTTAAAT	1920						
DB	1861	TGTTTTTTCAGGGAATGAATCCATTTTCTATTTTAGACTTTTAACTTCAACTTAAAT	1920						
QY	1921	TAGCATCTGGCTAAGSCATCATTTTTCACCTCCATTTCTTGGTTTGTATTTTAAAAA	1980						
DB	1921	TAGCATCTGGCTAAGSCATCATTTTTCACCTCCATTTCTTGGTTTGTATTTTAAAAA	1980						
QY	1981	AATAACATCTCTTCTAGCTCCATTAATTCGAGGAGAGATTTAGCATGAAGGTAA	2040						
DB	1981	AATAACATCTCTTCTAGCTCCATTAATTCGAGGAGAGATTTAGCATGAAGGTAA	2040						
QY	2041	TCTGAAACACAGTCTATGTCANCTGTAGAAAGGTTGATTTCTCATGCATCNAATACTT	2100						

Db 2041 TCTGAAACAGATCATGTGTGCANCTGTAGAAAGTTGATTTCTCATGCACTNCAAAATCTT 2100
Qy 2101 CAAAGAGTATCATGCGGGATTTTCATCTTTAGGCTTTCAGTGTGTTGTTCTCGAAT 2160
Db 2101 CAAAGAGTATCATGCGGGATTTTCATCTTTAGGCTTTCAGTGTGTTGTTCTCGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 7

US-09-883-839-7
; Sequence 7, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-7

Query Match 99.8%; Score 2156.8; DB 3; Length 2162;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGCAGAGGAGATGTCAGATGCTCAGCTCGTCCCTCGCCTGA 60
Db 1 GGAATTCGGCTATAGCAGAGGAGATGTCAGATGCTCAGCTCGTCCCTCGCCTGA 60
Qy 61 CGCTCCCTCTGCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCCTCTGCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Qy 121 GCGAAAGGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACCT 180
Db 121 GCGAAAGGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACCT 180
Qy 181 CGCACAGCGTGCCGCGCGCTGAGTACCATGAGCAGCGCTGCCCCCAGCAAG 240
Db 181 CGCACAGCGTGCCGCGCGCTGAGTACCATGAGCAGCGCTGCCCCCAGCAAG 240
Qy 241 CCAGCAATGCACTGATGCTTGGCTTCTCAAGTGTCTCCAGCAGCACCAGCCCGGTT 300
Db 241 CCAGCAATGCACTGATGCTTGGCTTCTCAAGTGTCTCCAGCAGCACCAGCCCGGTT 300
Qy 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGACCGACCCATGCGGTCCGAACCGCA 360
Db 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGACCGACCCATGCGGTCCGAACCGCA 360
Qy 361 CCAATCTGGCGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAATCTGGCGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGATCATGCGCTCTACTCCATCGTGTGGGCTCTTCGGAATCTTC 480

Db 421 CCATCAGATCATGCGCTCTACTCCATCGTGTGGGCTCTTCGGAATCTTC 480
Qy 481 TGGTCATGTATGTGATTTGTAGATACACCAAGATGAAGACTGCCACCAATCTCATTT 540
Db 481 TGGTCATGTATGTGATTTGTAGATACACCAAGATGAAGACTGCCACCAATCTCATTT 540
Qy 541 TCAACCTTGTCTGTGGCAGATGCTTTAGCCACAGTACCTGCGCTTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTGTGGCAGATGCTTTAGCCACAGTACCTGCGCTTCCAGAGTGTGAAT 600
Qy 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTGTCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTGTCTCCATAGATT 660
Qy 661 ACTATAACATGTTTACCAGCATATTCACCTCTGCAACATGATGTTGATTCGATATTC 720
Db 661 ACTATAACATGTTTACCAGCATATTCACCTCTGCAACATGATGTTGATTCGATATTC 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGGTACTCCCGAATGCCAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGGTACTCCCGAATGCCAAATATATCA 780
Qy 781 ATGTCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTAC 840
Db 781 ATGTCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTAC 840
Qy 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCAACCTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCAACCTGGTACT 900
Qy 901 GGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTCGCTTTCATTTGCGAGTGTCTATCA 960
Db 901 GGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTCGCTTTCATTTGCGAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCGCT 1020
Db 961 TTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCGCT 1020
Qy 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTAAGCCCTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTAAGCCCTGGTTACAA 1140
Qy 1141 TCCCAAGAACTAGCTTCCAGACTGTTTCTTGGCATTCTGCAATTTAGGTTTACACAA 1200
Db 1141 TCCCAAGAACTAGCTTCCAGACTGTTTCTTGGCATTCTGCAATTTAGGTTTACACAA 1200
Qy 1201 ACAGCTGCTTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAAAACGATCTCA 1260
Db 1201 ACAGCTGCTTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAAAACGATCTCA 1260
Qy 1261 GAGAGTTCTGTATCCCAACCTCTTCCAAATTCAGCAACAAACTCCACCTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAAATTCAGCAACAAACTCCACCTCGAATTCGTC 1320
Qy 1321 AGAACAATGAGACCAACCTTCCAGCCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Db 1321 AGAACAATGAGACCAACCTTCCAGCCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Qy 1381 ARAATCTGGAAGCAGAACTGCTCGTTGCCCTTAAACAGGCTCTCATGCCAATTCGACCTT 1440
Db 1381 ARAATCTGGAAGCAGAACTGCTCGTTGCCCTTAAACAGGCTCTCATGCCAATTCGACCTT 1440
Qy 1441 CACCAAGCTTTAGGAAGCAGCAACCATGATGTTGGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1500
Db 1441 CACCAAGCTTTAGGAAGCAGCAACCATGATGTTGGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1500
Qy 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCA 1560
Db 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCA 1560

Query Match		99.8%; Score 2156.8; DB 3; Length 2162;	
Best Local Similarity		99.9%; Pred. No. 0;	
Matches 2160; Conservative		0; Mismatches 2; Indels 0; Gaps 0;	
QY	1561	CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAGTGGAGCATTTTGGAAAGGAAGAA	1620
DB	1561		
QY	1621	TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG	1680
DB	1621	TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG	1680
QY	1681	GTATGTGAATTGAGTGCATATAAAGGTGACCCCTCTCTGTCTGTAAGATTTATTTTCAA	1740
DB	1681	GTATGTGAATTGAGTGCATATAAAGGTGACCCCTCTCTGTCTGTAAGATTTATTTTCAA	1740
QY	1741	GCAAAATATTATGACCTCAACAAAGAAAGAACCCATCTTTTGTGTTAAAGTTTCAACGTAGTAACA	1800
DB	1741	GCAAAATATTATGACCTCAACAAAGAAAGAACCCATCTTTTGTGTTAAAGTTTCAACGTAGTAACA	1800
QY	1801	CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTTGAATGGAAGGTCCGAGTCTTTTATAG	1860
DB	1801	CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTTGAATGGAAGGTCCGAGTCTTTTATAG	1860
QY	1861	TGTTTTTGCAGGGAGTGAATCCATATCTATTTTATTTTACCTTTTAACTTAAAT	1920
DB	1861	TGTTTTTGCAGGGAGTGAATCCATATCTATTTTATTTTACCTTTTAACTTAAAT	1920
QY	1921	TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATTGTTTAAATAAA	1980
DB	1921	TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATTGTTTAAATAAA	1980
QY	1981	AATAACATCTCTTTTCACTAGCTCCATTAATTGCAAGGAAAGAGATTAGCATGAAAGTAA	2040
DB	1981	AATAACATCTCTTTTCACTAGCTCCATTAATTGCAAGGAAAGAGATTAGCATGAAAGTAA	2040
QY	2041	TCTGAAACACAGTCATGTCANCTGTAGAAAGGTTTGAATCTCATGCACTNCAAAATACTT	2100
DB	2041	TCTGAAACACAGTCATGTCANCTGTAGAAAGGTTTGAATCTCATGCACTNCAAAATACTT	2100
QY	2101	CCAAAGAGTCATCATGGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTTCCTGGAAT	2160
DB	2101	CCAAAGAGTCATCATGGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTTCCTGGAAT	2160
QY	2161	TC 2162	
DB	2161	TC 2162	
RESULT 8			
US-09-883-839-8			
; Sequence 8, Application US/09883839			
; Publication No. US20040209250A1			
; GENERAL INFORMATION:			
; APPLICANT: Kreek, Mary Jeanne			
; APPLICANT: LaForge, Karl Steven			
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,			
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of			
; TITLE OF INVENTION: Treatment Based Thereon			
; FILE REFERENCE: 600-1-266N			
; CURRENT APPLICATION NUMBER: US/09/883,839			
; CURRENT FILING DATE: 2001-06-18			
; PRIOR APPLICATION NUMBER: 60/212,225			
; PRIOR FILING DATE: 2000-06-16			
; NUMBER OF SEQ ID NOS: 10			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 8			
; LENGTH: 2162			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
; FEATURE:			
; NAME/KEY: misc_feature			
; LOCATION: 2063..2091			
; OTHER INFORMATION: n = A,T,C or G			
US-09-883-839-8			


```
QY 538 TTTTCAACCTTGCTCTGGGAGATGCTTACGACACCGATACCTTGCCTTCCAGAGTGTGA 597
Db 541 TTTTCAACCTTGCTCTGGGAGATGCTTACGACACCGATACCTTGCCTTCCAGAGTGTGA 600
QY 598 ATTACCTAATGGGAACATGSCCATTTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAG 657
Db 601 ATTACCTAATGGGAACATGSCCATTTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAG 660
QY 658 ATTACTATTAACATGTTTACCAGCATATTCACCCCTCTGACACCATGAGTGTGTATCGATACA 717
Db 661 ATTACTATTAACATGTTTACCAGCATATTCACCCCTCTGACACCATGAGTGTGTATCGATACA 720
QY 718 TTGCGAGTCTGCCACCCCTGTCAAGCCCTTAGATTTCCGTTACTCCCGAAATGCCAAATTA 777
Db 721 TTGCGAGTCTGCCACCCCTGTCAAGCCCTTAGATTTCCGTTACTCCCGAAATGCCAAATTA 780
QY 778 TCAATGTCTGCAACTGGATCCCTCTCTTCAGCCATTTGGTCTCTCTGTAATGTTTCATGGCTA 837
Db 781 TCAATGTCTGCAACTGGATCCCTCTCTTCAGCCATTTGGTCTCTCTGTAATGTTTCATGGCTA 840
QY 838 CAACAAAATACAGGCAAGGTTCCATAGATTGTACATACTTCTCTCATCCAACTGGT 897
Db 841 CAACAAAATACAGGCAAGGTTCCATAGATTGTACATACTTCTCTCATCCAACTGGT 900
QY 898 ACTGGGAAAACCTCGTGAAGATCTGTGTTTTCACTTCGCTTCATTCAGCAGTGTCTCA 957
Db 901 ACTGGGAAAACCTCGTGAAGATCTGTGTTTTCACTTCGCTTCATTCAGCAGTGTCTCA 960
QY 958 TCATTTACCTGTGCTATGACATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1017
Db 961 TCATTTACCTGTGCTATGACATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1020
QY 1018 GCTCCAAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGTGTGCTGGTGGTG 1077
Db 1021 GCTCCAAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGTGTGCTGGTGGTG 1080
QY 1078 CTGTGTTTCATGCTCTGGAATCTCCCATTCACATTTACGTATCAATTAAGCCTTGGTTA 1137
Db 1081 CTGTGTTTCATGCTCTGGAATCTCCCATTCACATTTACGTATCAATTAAGCCTTGGTTA 1140
QY 1138 CAATCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACA 1197
Db 1141 CAATCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACA 1200
QY 1198 CAACAAGCTGCTCAACCCAGCTCTTTATGCAATTTCTGGATGAAAACCTTCAACAGATGT 1257
Db 1201 CAACAAGCTGCTCAACCCAGCTCTTTATGCAATTTCTGGATGAAAACCTTCAACAGATGT 1260
QY 1258 TCAGAGATTTCTGTATCCCAACCTCTTCCAAACATTTAGAGCAACAACTCCACTCGAATTC 1317
Db 1261 TCAGAGATTTCTGTATCCCAACCTCTTCCAAACATTTAGAGCAACAACTCCACTCGAATTC 1320
QY 1318 GTCAGAACACTAGAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGC 1377
Db 1321 GTCAGAACACTAGAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGC 1380
QY 1378 TAGAAAATCTGGAAGCAGAAAACCTGCTCCGTTGCGCTTAAACAGGGTCTTCATGCCATCCGAC 1437
Db 1381 TAGAAAATCTGGAAGCAGAAAACCTGCTCCGTTGCGCTTAAACAGGGTCTTCATGCCATCCGAC 1440
QY 1438 CTTTCAACAAGCTTAGAAGCCACATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1497
Db 1441 CTTTCAACAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1500
QY 1498 AGGCTCTAATCTCTAGGAAAGTGCTACTTTTAGGTTCATCCAACTCTTCTCTCTGCG 1557
Db 1501 AGGCTCTAATCTCTAGGAAAGTGCTACTTTTAGGTTCATCCAACTCTTCTCTCTGCG 1560
QY 1558 CCACTCTGCTGTCACATTTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTTGGAAAGGAAAG 1617
Db 1561 CCACTCTGCTGTCACATTTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTTGGAAAGGAAAG 1620
```

```
QY 1618 GAATATACACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
Db 1621 GAATATACACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
QY 1678 GTGGTATGTGAATTTGAAGTCATCATAAAGGAGTGACCCCTCTCTGTCTGTAAAGATTTATTTT 1737
Db 1681 GTGGTATGTGAATTTGAAGTCATCATAAAGGAGTGACCCCTCTCTGTCTGTAAAGATTTATTTT 1740
QY 1738 CAAGCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCACCGTAGTA 1797
Db 1741 CAAGCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCACCGTAGTA 1800
QY 1798 ACACATAAAGTAAATGCTACCTCTCATCAAAAGCACCTTGAATGGAAGGTCGAGTCTTTT 1857
Db 1801 ACACATAAAGTAAATGCTACCTCTCATCAAAAGCACCTTGAATGGAAGGTCGAGTCTTTT 1860
QY 1858 TAGTGTTTTTGCAAGGGAATGAATCCATTAATTTTAGACTTTTAACTTTCAACTTAA 1917
Db 1861 TAGTGTTTTTGCAAGGGAATGAATCCATTAATTTTAGACTTTTAACTTTCAACTTAA 1920
QY 1918 AATTAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATGTTTAA 1977
Db 1921 AATTAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATGTTTAA 1980
QY 1978 AAAATAACATCTCTTTTTCATCTAGCTCCATTAATTCAGGGAAGAGATTAGCATGAAAG 2037
Db 1981 AAAATAACATCTCTTTTTCATCTAGCTCCATTAATTCAGGGAAGAGATTAGCATGAAAG 2040
QY 2038 TAATCTGAAAACACAGTCATGTGTCACTGTAGAAAAGTTGATTTCTCATGCACCTNCAATA 2097
Db 2041 TAATCTGAAAACACAGTCATGTGTCACTGTAGAAAAGTTGATTTCTCATGCACCTNCAATA 2100
QY 2098 CTTTCAAAAGAGTCATCATGCGGGGATTTTTCATCTTAGGCTTTAGTGGTGTGTTCTCTGG 2157
Db 2101 CTTTCAAAAGAGTCATCATGCGGGGATTTTTCATCTTAGGCTTTAGTGGTGTGTTCTCTGG 2160
QY 2158 AATTC 2162
Db 2161 AATTC 2165
```

RESULT 10

```
US-10-080-917-12
; Sequence 12, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2149
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-12
```

```
Query Match 97.5%; Score 2108.8; DB 5; Length 2149;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 9; Indels 2; Gaps 2;

QY 9 GGCTATAGCGACGAGGAGAAATGTCAGATGCTCAGTCCGCTCCGCTGAGCGTCTCTC 68
Db 6 GGCTATAGCGACGAGGAGAAATGTCAGATGCTCAGTCCGCTCCGCTGAGCGTCTCTC 65
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 128
```


Db 66 TCTGTCTCAGCAGACTGTTCTGTAAGAAACAGCAGAGCTGTGGCAGCGCGAAG 125
Qy 129 GAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGGGTGACTCTGCACAGC 188
Db 126 GAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGGGTGACTCTGCACAGC 185
Qy 189 GGTGCCCGCGCGCGCTCAGTACATGAGCAGCAGCGCTGCCGCCAGAACGCCAGCAAT 248
Db 186 GGTGCCCGCGCGCGCGCTCAGTACATGAGCAGCAGCGCTGCCGCCAGAACGCCAGCAAT 245
Qy 249 TGCACATGATGCTTGGGGTACTCAAGTTGCTCCCCAGCACCCAGCCCGGGTTCCTGGGTC 308
Db 246 TGCACATGATGCTTGGGGTACTCAAGTTGCTCCCCAGCACCCAGCCCGGGTTCCTGGGTC 305
Qy 309 AACTTGTCCCACTTAGATGGCAACCTGACCGAACCCATGGCGTTCGAAACCGCACCACTG 368
Db 306 AACTTGTCCCACTTAGATGGCAACCTGTCGAGACCCATGCGGTCCGAAACCGCACCACTG 365
Qy 369 GCGGGAGAGACAGCGCTGCCCTCCGACCGGACAGTCCCTCCATGATCAGCGGCATCAG 428
Db 366 GCGGGAGAGACAGCGCTGCCCTCCGACCGGACAGTCCCTCCATGATCAGCGGCATCAG 425
Qy 429 ATCATGCGCCCTACTCTACTCGTGTGGTGGGGCTCTTCGGAAACTTCTCGGTGCTATG 488
Db 426 ATCATGCGCCCTACTCTACTCGTGTGGTGGGGCTCTTCGGAAACTTCTCGGTGCTATG 485
Qy 489 TATGTGATGTGATGATACACCAAGATGAAGATGCGCACCAACATCTACATTTTCAACCTT 548
Db 486 TATGTGATGTGATGATACACCAAGATGAAGATGCGCACCAACATCTACATTTTCAACCTT 545
Qy 549 GCTCTGCGAGATGCTTAGCCACAGTACCTGCGGCTTCCAGAGTGTGAATTACCTAATG 608
Db 546 GCTCTGCGAGATGCTTAGCCACAGTACCTGCGGCTTCCAGAGTGTGAATTACCTAATG 605
Qy 609 GGAACATGGCCATTTGGAACCATCTTGAAGATGATGATCTCCATAGATTACTATAAC 668
Db 606 GGAACATGGCCATTTGGAACCATCTTGAAGATGATGATCTCCATAGATTACTATAAC 665
Qy 669 ATGTTCACAGCATPATTACCCCTCTGCAACATGATGTTGATCGATACATTCGAGTCTGC 728
Db 666 ATGTTCACAGCATPATTACCCCTCTGCAACATGATGTTGATCGATACATTCGAGTCTGC 725
Qy 729 CACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATGCTGC 788
Db 726 CACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATGCTGC 785
Qy 789 AACTGGATCTCTCTCAGCCATTGCTCTCTGTAATGTTGATGGCTACAAACAAATAC 848
Db 786 AACTGGATCTCTCTCAGCCATTGCTCTCTGTAATGTTGATGGCTACAAACAAATAC 845
Qy 849 AGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCAACCTGGTACTGGGAAAC 908
Db 846 AGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCAACCTGGTACTGGGAAAC 905
Qy 909 CTCGTGAAGATCTGTGTTTTCATCTTGCCTTCAATATGACAGTGTCTATCAATACCGTG 968
Db 906 CTCGTGAAGATCTGTGTTTTCATCTTGCCTTCAATATGACAGTGTCTATCAATACCGTG 965
Qy 969 TGTCTAGGACTGATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1028
Db 966 TGTCTAGGACTGATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1025
Qy 1029 AAGGACAGGAATCTTCCGAAGGATCACAGGATGCTGTGGTGTGGTGTGTTGTTATC 1088
Db 1026 AAGGACAGGAATCTTCCGAAGGATCACAGGATGCTGTGGTGTGGTGTGTTGTTATC 1085
Qy 1089 GTCTGTGGAATCTCCATTTACATTTAGTCAATTTAAAGCCTTGGTTGATCCCGAGAA 1148
Db 1086 GTCTGTGGAATCTCCATTTACATTTAGTCAATTTAAAGCCTTGGTTGATCCCGAGAA 1145
Qy 1149 ACTACGTTCCAGATGTTTCTGGCACTTCTGCAATGCTCTAGGTTACAAACAGCTGC 1208

Db 1146 ACTACGTTCCAGACTGTTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAAACAGCTGC 1205
Qy 1209 CTCACCCAGTCTCTTATGCAATTTCTGGATGAAACTTCAAACGATGCTTTCAGAGAGTTC 1268
Db 1206 CTCACCCAGTCTCTTATGCAATTTCTGGATGAAACTTCAAACGATGCTTTCAGAGAGTTC 1265
Qy 1269 TGTATCCCAACCTCTTCCAACTTTGAGCAACAAAACCTCCAACCTCGAATTCCTCAGAACACT 1328
Db 1266 TGTATCCCAACCTCTTCCAACTTTGAGCAACAAAACCTCCAACCTCGAATTCCTCAGAACACT 1325
Qy 1329 AGAGACCAACCTCTCAGCGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTG 1388
Db 1326 AGAGACCAACCTCTCAGCGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTG 1385
Qy 1389 GAAGCAGAACTCTCGCTTGCCTTAACAGGGTCTCATGCAATTCGACCTTCCACCAAGC 1448
Db 1386 GAAGCAGAACTCTCGCTTGCCTTAACAGGGTCTCATGCAATTCGACCTTCCACCAAGC 1445
Qy 1449 TTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAATGTGTAGGAGGCTCTAATT 1508
Db 1446 TTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAATGTGTAGGAGGCTCTAATT 1505
Qy 1509 CTCTAGAAAGTGCCTACTTTTAGTTCATCCAACTCTTCTCTCTGGCCACTCTGCTC 1568
Db 1506 CTCTAGAAAGTGCCTACTTTTAGTTCATCCAACTCTTCTCTCTGGCCACTCTGCTC 1565
Qy 1569 TGCACATTAGAGGAGCAGCCAAAGTAAGTGGAGCATTTTGGAAAGGAAGTAATACAC 1628
Db 1566 TGCACATTAGAGGAGCAGCCAAAGTAAGTGGAGCATTTTGGAAAGGAAGTAATACAC 1625
Qy 1629 ACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGTGTGTA 1688
Db 1626 ACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGTGTGTA 1685
Qy 1689 ATTGAAGTCAATATAAAAGGTGACCTTCTGTCTGTGAAGATTTTATTTTCAAGCAATAT 1748
Db 1686 ATTGAAGTCAATATAAAAGGTGACCTTCTGTCTGTGAAGATTTTATTTTCAAGCAATAT 1745
Qy 1749 TTATGACCTCAACAAAGAGAACCATCTTTTGAAGTTCACCGTAGTAAACACATAAAGT 1808
Db 1746 TTATGACCTCAACAAAGAGAACCATCTTTTGAAGTTCACCGTAGTAAACACATAAAGT 1805
Qy 1809 AAATGTCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTGTAGTGTGTTG 1868
Db 1806 AAATGTCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTGTAGTG-TTTTG 1864
Qy 1869 CAAGGGAATGAATCCATTTATTTTATTTAGATTTTAACTTTAAATTTAGATCT 1928
Db 1865 CAAGGGAATGAATCCATTTATTTTATTTAGATTTTAACTTTAAATTTAGATCT 1924
Qy 1929 GGCTAAGGATCAATTTTACCTCCATTTCTTGGTTTGTATTTTAAAAAATAACAT 1988
Db 1925 GGCTAAGGATCAATTTTACCTCCATTTCTTGGTTTGTATTTT-AAAAAATAACAT 1983
Qy 1989 CTCTTTTCTAGTCTCATAAATTCGAAGGAGAGATTAGCATGAAAGGTAATCTGAAAC 2048
Db 1984 CTCTTTTCTAGTCTCATAAATTCGAAGGAGAGATTAGCATGAAAGGTAATCTGAAAC 2043
Qy 2049 ACAGTCAATGTCTCANTGTAGAAAGGTGATTTCTCATGCACTNCAATATCTTCCAAAGAG 2108
Db 2044 ACAGTCAATGTCTCAGCTGTAGAAAGGTGATTTCTCATGCACTGCAAAATCTTCCAAAGAG 2103
Qy 2109 TCATCATGGGGGATTTTTCATTTCTTAGGCTTTTCAGTGGTTTGTTC 2154
Db 2104 TCATCATGGGGGATTTTTCATTTCTTAGGCTTTTCAGTGGTTTGTTC 2149

APPLICANT: XU, Yuming; DUGGAN, Brendan M.;
APPLICANT: HONCHELL, Cynthia D.; KALLICK, Deborah A.;
APPLICANT: BAUGHN, Mariah R.; TANG, Y.Tom;
APPLICANT: YUE, Henry; BANDMAN, Olga;
APPLICANT: JONES, Karen Anne; BECHA, Shanya D.;
APPLICANT: TRAN, Uyen K.; AU-YOUNG, Janice K.;
APPLICANT: GRIFFIN, Jennifer A.; ZEBARADIAN, Yeganeh;
APPLICANT: LEE, Ernestine A.; ELLIOTT, Vicki S.;
APPLICANT: THANGAVELOU, Kavitha; RAMKUMAR, Jayalaxmi;
APPLICANT: LU, Yan; HAFALIA, April J.A.;
APPLICANT: CHAWLA, Navinder K.; ISON, Craig H.;
APPLICANT: THORNTON, Michael B.; SWARNAKAR, Anita;
APPLICANT: YANG, Junning; RICHARDSON, Thomas W.;
APPLICANT: EMERLING, Brooke M.; YAO, Monique G.;
APPLICANT: COCKS, Benjamin G.; SANJANWALA, Bharati;
APPLICANT: MASON, Patricia M.; GANDHI, Ameena R.;
APPLICANT: LI, Joana X.; FORSYTHE, Ian J.;
APPLICANT: GURURAJAN, Rajagopal; GIETZEN, Kimberly J.
TITLE OF INVENTION: RECEPTORS AND MEMBRANE-ASSOCIATED PROTEINS
FILE REFERENCE: PF-0992 USN
CURRENT APPLICATION NUMBER: US/10/477,714
CURRENT FILING DATE: 2003-11-14
PRIOR APPLICATION NUMBER: PCT/US02/15899
PRIOR FILING DATE: 2002-05-16
PRIOR APPLICATION NUMBER: 60/292,197
PRIOR FILING DATE: 2001-05-18
PRIOR APPLICATION NUMBER: US 60/297,012
PRIOR FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: US 60/300,582
PRIOR FILING DATE: 2001-06-21
PRIOR APPLICATION NUMBER: US 60/300,495
PRIOR FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: US 60/301,992
PRIOR FILING DATE: 2001-06-28
PRIOR APPLICATION NUMBER: US 60/340,542
PRIOR FILING DATE: 2001-12-14
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PERL Program
SEQ ID NO 33
LENGTH: 2279
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No: 7580043CB1
US-10-477-714-33

Query Match 97.0%; Score 2097.8; DB 8; Length 2279;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 9; Indels 3; Gaps 3;
QY 9 GGCTATAGGCAGGAGAGATGTGATGCTCAGCTCGGTCCCTCCGCTCGAGCTCCTC 68
DB 1 GGCTATAGGCAGGAGAGATGTGATGCTCAGCTCGGTCCCTCCGCTCGAGCTCCTC 60
QY 69 TCTGTCTCAGCCAGGACTGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
DB 61 TCTGTCTCAGCCAGGACTGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 120
QY 129 GAAGCGGCTCAGCGGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGCTACCTCGCACAGC 188
DB 121 GAAGCGGCTCAGCGGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGCTACCTCGCACAGC 180
QY 189 GGTGCGCGCGCGGCTCAGTACCATGGACAGCAGCGGTGCCCGCCAGAAACGCGCAAT 248
DB 181 GGTGCGCGCGCGGCTCAGTACCATGGACAGCAGCGGTGCCCGCCAGAAACGCGCAAT 240
QY 249 TGCACTGATGCTTGGGCTACTCAAGTGTCTCCGAGCAGCCAGCCCGGTTCTCGGTC 308
DB 241 TGCACTGATGCTTGGGCTACTCAAGTGTCTCCGAGCAGCCAGCCCGGTTCTCGGTC 300
QY 309 AACTGTGCCACATTAGATGCAACCTGACCGACCCATCGGTCGCGGTCGCGACCAACCTG 368

301 AACTGTGCCACATTAGATGCAACCTGTCGACCCATCGGCTCGAAACCGCACCGACCTG 360
QY 369 GGCGGGAGAGACGCTGTGCTCCCGACCGGACGCTCCCTCATCATCAAGGCTCAGC 428
DB 361 GGCGGGAGAGACGCTGTGCTCCCGACCGGACGCTCCCTCATCATCAAGGCTCAGC 420
QY 429 ATCATGGCCCTCTACTCCATCGTGTGCTGTGGGCTCTTTCGGAAACTTCTCGTGTG 488
DB 421 ATCATGGCCCTCTACTCCATCGTGTGCTGTGGGCTCTTTCGGAAACTTCTCGTGTG 480
QY 489 TATGTGATGTGCAGATACACCAAGATGAAGACTGCGACCAACATCTACATTTTCAACCTT 548
DB 481 TATGTGATGTGCAGATACACCAAGATGAAGACTGCGACCAACATCTACATTTTCAACCTT 540
QY 549 GCTCTGGCAGATGCTTACCCACAGTACCTGCGGCTTCCAGAGTGTGAATTTACCTAATG 608
DB 541 GCTCTGGCAGATGCTTACCCACAGTACCTGCGGCTTCCAGAGTGTGAATTTACCTAATG 600
QY 609 GGAACATGGCCATTTTGGAAACCATCTTTCGAAGATAGTGTCTCCATAGATTTACTATAAC 668
DB 601 GGAACATGGCCATTTTGGAAACCATCTTTCGAAGATAGTGTCTCCATAGATTTACTATAAC 660
QY 669 ATGTTTCAACAGATATTCACCTCTGCAACATGATGTTGATCGATACATTCGAGTCTGC 728
DB 661 ATGTTTCAACAGATATTCACCTCTGCAACATGATGTTGATCGATACATTCGAGTCTGC 720
QY 729 CACCTGTTCNAGGCTTGTAGTTTCCGTAATTCCTGTAATGTTTTCATGGCTACCAAAATAT 788
DB 721 CACCTGTTCNAGGCTTGTAGTTTCCGTAATTCCTGTAATGTTTTCATGGCTACCAAAATAT 780
QY 789 AACTGGATCTCTCTTTCAGCCATTTGTTTCTTCTGTAATGTTTTCATGGCTACCAAAATAT 848
DB 781 AACTGGATCTCTCTTTCAGCCATTTGTTTCTTCTGTAATGTTTTCATGGCTACCAAAATAT 840
QY 849 AGGCAAGGTTTCCATAGATTTGTATACATAACATTTCTCATCCAACTGGTGTCTGGGAAAC 908
DB 841 AGGCAAGGTTTCCATAGATTTGTATACATAACATTTCTCATCCAACTGGTGTCTGGGAAAC 900
QY 909 CTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTATGCGCAGTGTCTCATATTACCGTG 968
DB 901 CTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTATGCGCAGTGTCTCATATTACCGTG 960
QY 969 TGCTATGAGTCTGATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1028
DB 961 TGCTATGAGTCTGATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1020
QY 1029 AAGGACAGGAATCTTCGAAGGATCCACAGGATGTTGCTGGTGTGCTGTGTTTCAATC 1088
DB 1021 AAGGACAGGAATCTTCGAAGGATCCACAGGATGTTGCTGGTGTGCTGTGTTTCAATC 1080
QY 1089 GTCTCTGGACTCCCATTTACACATTTTACGTCATCATTTAAAGCTTGGTTTACAAATCCAGAA 1148
DB 1081 GTCTCTGGACTCCCATTTACACATTTTACGTCATCATTTAAAGCTTGGTTTACAAATCCAGAA 1140
QY 1149 ACTACGTTCCAGACTGTTTCTTTCGGCACTTCTGCAATGCTCTAGGTTTACAAACAGCTGC 1208
DB 1141 ACTACGTTCCAGACTGTTTCTTTCGGCACTTCTGCAATGCTCTAGGTTTACAAACAGCTGC 1200
QY 1209 CTCAACCCAGTCTTTCATGCAATTTCTGGATGAAAACCTTCAACAGATGCTTCAGAGAGTTC 1268
DB 1201 CTCAACCCAGTCTTTCATGCAATTTCTGGATGAAAACCTTCAACAGATGCTTCAGAGAGTTC 1260
QY 1269 TGTATCCCAACCTCTTCCAACTTTCGAACATTTAGCAACAAAACCTCCACTCGAATTCGTTCAGAA 1328
DB 1261 TGTATCCCAACCTCTTTCGAACATTTAGCAACAAAACCTCCACTCGAATTCGTTCAGAACT 1320
QY 1329 AGAGACCAACCTTCCACGCGCAATACAGTGTGATAGAACTTAATCATCAGCTAGAAATCTG 1388
DB 1321 AGAGACCAACCTTCCACGCGCAATACAGTGTGATAGAACTTAATCATCAGCTAGAAATCTG 1380
QY 1389 GAAGCAGAACTGCTCCGTTGCCCTTAAAGGCTCTCATGCCATTCGCACTTCACCAAGC 1448
DB 1381 GAAGCAGAACTGCTCCGTTGCCCTTAAAGGCTCTCATGCCATTCGCACTTCACCAAGC 1440

1449 TTAAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAAAT 1508
1441 TTAAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAAAT 1500
1509 CTCTAGGAAAGTGCTACTTTTATAGTTCATCAACCTCTTTCTCTCTGGCCACTCTGCTC 1568
1501 CTCTAGGAAAGTGCTCTTTTATAGTTCATCAACCTCTTTCTCTCTGGCCACTCTGCTC 1560
1569 TGACATTAAGGAGGACACGCAAAAGTAAGTGGAGCATTTGGAGGAAGAAATATACCA 1628
1561 TGACATTAAGGAGGACACGCAAAAGTAAGTGGAGCATTTGGAGGAAGAAATATACCA - 1619
1629 ACCGAGAGTCCAGTTTGTGCAACACACCAAGTGAACCAAAACCCATCGTGGTATGTGA 1688
1620 ACCGAGAGTCCAGTTTGTGCAACACACCAAGTGAACCAAAACCCATCGTGGTATGTGA 1679
1689 ATTGAAGTCATCATAAAAGGTGACCTTTCTGTCTGTAAAGATTTTATTTTCAAGCAATAT 1748
1680 ATTGAAGTCATCATAAAAGGTGACCTTTCTGTCTGTAAAGATTTTATTTTCAAGCAATAT 1739
1749 TTATGACCTCAACAAAGAAACCAATCTTTTGTAAAGTTCACCGTAGTAACACATAAAGT 1808
1740 TTATGACCTCAACAAAGAAACCAATCTTTTGTAAAGTTCACCGTAGTAACACATAAAGT 1799
1809 AATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTGTAGTGTGTTG 1868
1800 AATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTGTAGTGTGTTG 1858
1869 CAAGGAATGAATCCATTTATTTTATAGATTTTAACTTTCAACTTTAAATTTAGCATCT 1928
1859 CAAGGAATGAATCCATTTATTTTATAGATTTTAACTTTTAACTTTTAAATTTAGCATCT 1918
1929 GGCTAAGGCATCATTTTCACTCTCAATTTCTTGGTTTGTATGTTTAAAAAATAACAT 1988
1919 GGCTAAGGCATCATTTTCACTCTCAATTTCTTGGTTTGTATGTTTAAAAAATAACAT 1977
1989 CTCTTTTATCTAGTCCATTAATTCAGAGGAGAGATAGCATGAAAGGTAATCTGAAC 2048
1978 CTCTTTTATCTAGTCCATTAATTCAGAGGAGAGATAGCATGAAAGGTAATCTGAAC 2037
2049 ACAGTCATGTCTGATCTAGAAAGGTTGATTTCTCATGCACTNCAAAATCTTCAAGAG 2108
2038 ACAGTCATGTCTAGTCTAGAAAGGTTGATTTCTCATGCACTGCAATACTTCAAGAG 2097
2109 TCATCATGGGGATTTTTCATTTTATAGCTTTTCAAGTGTGTTGTTCT 2155
2098 TCATCATGGGGATTTTTCATTTTATAGCTTTTCAAGTGTGTTGTTCT 2144

RESULT 12
US-10-080-917-13
; Sequence 13, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 1473
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-13

Query Match 62.5%; Score 1351.8; DB 5; Length 1473;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1359; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 17 GCAGAGGAGAAATGTAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTCTCTGTCTC 76
Db 1 GCAGAGGAGAAATGTAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTCTCTGTCTC 60
QY 77 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAGAAAGCGGC 136
Db 61 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAGAAAGCGGC 120
QY 137 TGAGGCGCTTGGAAACCCGAAAAGTCTCGGTCTCTGGCTACCTCGCAGCGGTGCGCG 196
Db 121 TGAGGCGCTTGGAAACCCGAAAAGTCTCGGTCTCTGGCTACCTCGCAGCGGTGCGCG 180
QY 197 CCGGCGCTCAGTACCATGGACAGCAGCTGCTCCCGACGACCGGCGGCGAAAGTTCACCTGA 256
Db 181 CCGGCGCTCAGTACCATGGACAGCAGCTGCTCCCGACGACCGGCGGCGAAAGTTCACCTGA 240
QY 257 TGCCTTTGGCGTACTCAAGTTGCTCCCGACGACCGGCGGCTTCTGGGTCAACTTGTGC 316
Db 241 TGCCTTTGGCGTACTCAAGTTGCTCCCGACGACCGGCGGCTTCTGGGTCAACTTGTGC 300
QY 317 CCACTTAGATGGCAACCTGACCGACCTGCGGTCCGAAACCGCACTGCGGCGGAG 376
Db 301 CCACTTAGATGGCGACCTGTCGACCTGCGGTCCGAAACCGCACTGCGGCGGAG 360
QY 377 AGACGCGCTGTGCGCTCCGACCGGCGCTCCCTCCATGATCAGCGGCGGCGGCGGCGG 436
Db 361 AGACGCGCTGTGCGCTCCGACCGGCGCTCCCTCCATGATCAGCGGCGGCGGCGGCGG 420
QY 437 CCTCTACTCCTCATCGTGTGGGTCTTTCGGAAACTTCTGGTCACTGTATGTGAT 496
Db 421 CCTCTACTCCTCATCGTGTGGGTCTTTCGGAAACTTCTGGTCACTGTATGTGAT 480
QY 497 TGTGAGATACACCAAGATGAAGCTGCGCAACATCTACATTTTCAACCTTGTCTGCGC 556
Db 481 TGTGAGATACACCAAGATGAAGCTGCGCAACATCTACATTTTCAACCTTGTCTGCGC 540
QY 557 AGATGCGTTAGCCACAGTACCTTCCGCTTCCAGAGTGTGAATTTACCTAATGGGAAACATG 616
Db 541 AGATGCGTTAGCCACAGTACCTTCCGCTTCCAGAGTGTGAATTTACCTAATGGGAAACATG 600
QY 617 GCCATTTGGAACCATCTCTTTCAGAGTAGTGTCTCCATAGATTTATATTAACATGTTTCC 676
Db 601 GCCATTTGGAACCATCTCTTTCAGAGTAGTGTCTCCATAGATTTATTAACATGTTTCC 660
QY 677 CAGCATATTCACCCCTCTGCAACCATGATGTTGATCGATACATTTGCGGCGGCGGCGGCGG 736
Db 661 CAGCATATTCACCCCTCTGCAACCATGATGTTGATCGATACATTTGCGGCGGCGGCGGCGG 720
QY 737 CAAGGCGTTAGATTTTGGTACTCCCGAAATGCCAAATTTATCAATCTCTGCAACTGGAT 796
Db 721 CAAGGCGTTAGATTTTGGTACTCCCGAAATGCCAAATTTATCAATCTCTGCAACTGGAT 780
QY 797 CCTCTCTTCAAGCATTTGCTTCTGTAAATGTTTCATGGCTACCAACAAATATACAGGCAAGG 856
Db 781 CCTCTCTTCAAGCATTTGCTTCTGTAAATGTTTCATGGCTACCAACAAATATACAGGCAAGG 840
QY 857 TTCATAGATTTGACACTAAACATTTCTCATCCAACTCGTGTGCGGAAACCTCTGCGTAA 916
Db 841 TTCATAGATTTGACACTAAACATTTCTCATCCAACTCGTGTGCGGAAACCTCTGCGTAA 900
QY 917 GATCTGTGTTTTCATCTTCCGCTTATTTGCGGCGGCTCATCATTTACCGTGTGCTATGG 976
Db 901 GATCTGTGTTTTCATCTTCCGCTTATTTGCGGCGGCTCATCATTTACCGTGTGCTATGG 960
QY 977 ACTGATGATCTTGGCGCTCAAGAGTGTCCCGCATGCTCTCTGGCTCCAAAGAAAGGACAG 1036
Db 961 ACTGATGATCTTGGCGCTCAAGAGTGTCCCGCATGCTCTCTGGCTCCAAAGAAAGGACAG 1020
QY 1037 GAATCTTTCGAAGGATCACAGGATGGTGTGGTGGTGTGTTTCATCTGCTGTGCTG 1096

[illegible]

Qy	273	AGTTGCTCCCGCAGCACCAGCCCGGTTCTCGGTCAACTTGTGCCACTTAGATGCAAC	332
Db	61	AGTTGCTCCCGCAGCACCAGCCCGGTTCTCGGTCAACTTGTGCCACTTAGATGCAAC	120
Qy	333	CTGACCGACCCATGCGGTCCGAAACCGCACCACTGGCGGAGAGACAGCCCTGTGCCCT	392
Db	121	CTGTCCGACCCATGCGGTCCGAAACCGCACCACTGGCGGAGAGACAGCCCTGTGCCCT	180
Qy	393	CCGACCGGAGTCCCTCCCATGATCAGGCGCATCACGATCATGCCCTCTACTCCATCGTG	452
Db	181	CCGACCGGAGTCCCTCCCATGATCAGGCGCATCACGATCATGCCCTCTACTCCATCGTG	240
Qy	453	TGCGTGGTGGGCTCTTCGGAACCTTCCTGGTCACTGTATGTGATGTGATACACCAAG	512
Db	241	TGCGTGGTGGGCTCTTCGGAACCTTCCTGGTCACTGTATGTGATGTGATACACCAAG	300
Qy	513	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGSCAGATGCTTAGCCACC	572
Db	301	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGSCAGATGCTTAGCCACC	360
Qy	573	AGTACCCTGCCCTTCAGAGTGTGAATTACCTAATGGGAACATGGCCATTTGGAAACCATC	632
Db	361	AGTACCCTGCCCTTCAGAGTGTGAATTACCTAATGGGAACATGGCCATTTGGAAACCATC	420
Qy	633	CTTTGCAAGATAGTGTCTCCATAGATTACTATATACATGTTTACCAGCATATTCACCCCTC	692
Db	421	CTTTGCAAGATAGTGTCTCCATAGATTACTATATACATGTTTACCAGCATATTCACCCCTC	480
Qy	693	TGCACCATGAGTGTGATCGATACATTTGCACTGTGCGACCTGTCAAGGCCCTTAGATTTTC	752
Db	481	TGCACCATGAGTGTGATCGATACATTTGCACTGTGCGACCTGTCAAGGCCCTTAGATTTTC	540
Qy	753	CGTACTCCCCGAAATGCCAAAATTTAATGTTGCACTGGATCCTCTCTTCAGCCATT	812
Db	541	CGTACTCCCCGAAATGCCAAAATTTAATGTTGCACTGGATCCTCTCTTCAGCCATT	600
Qy	813	GGTCTTCTGTATGTTTCATGGGTACAAACAAATACAGGCAAGGTTCCATAGATTGTACA	872
Db	601	GGTCTTCTGTATGTTTCATGGGTACAAACAAATACAGGCAAGGTTCCATAGATTGTACA	660
Qy	873	CTAACATTTCTCATCCACCTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATC	932
Db	661	CTAACATTTCTCATCCACCTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATC	720
Qy	933	TTGCGCTTCATTATGCCAGTGTCTCATTTACCGTGTGCTATGGACTGATGATCTTTGCGC	992
Db	721	TTGCGCTTCATTATGCCAGTGTCTCATTTACCGTGTGCTATGGACTGATGATCTTTGCGC	780
Qy	993	CTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	1052
Db	781	CTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	840
Qy	1053	ACCAGGATGGTGTGGTGGTGGTGTTCATCGTCTGTGGACTCCCATTCACATT	1112
Db	841	ACCAGGATGGTGTGGTGGTGGTGTTCATCGTCTGTGGACTCCCATTCACATT	900
Qy	1113	TAGTTCATCATTAAGCCTTGGTTACAATCCCAAGAAACTACGTTCCAGACTGTGTTCTTGG	1172
Db	901	TAGTTCATCATTAAGCCTTGGTTACAATCCCAAGAAACTACGTTCCAGACTGTGTTCTTGG	960
Qy	1173	CACCTTCGATTCCTAGTTTACAAACAGCTGCTCAACCCAGTCTTTATGCAATTT	1232
Db	961	CACCTTCGATTCCTAGTTTACAAACAGCTGCTCAACCCAGTCTTTATGCAATTT	1020
Qy	1233	CTGGATGAAACCTTCAACAGATCTTCAGAGATCTGTATCCCAACCTCTTCCAAACATT	1292
Db	1021	CTGGATGAAACCTTCAACAGATCTTCAGAGATCTGTATCCCAACCTCTTCCAAACATT	1080
Qy	1293	GAGCAACAAACCTCCAATTCGAATTCGTGAGAACACTAGAGACCAACCCCTCCACGGCCAAT	1352
Db	1081	GAGCAACAAACCTCCAATTCGAATTCGTGAGAACACTAGAGACCAACCCCTCCACGGCCAAT	1140

Qy	1353	ACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAAAATGCTCCGTTGCC	1412
Db	1141	ACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAAAATGCTCCGTTGCC	1200
Qy	1413	TAA	1415
Db	1201	TAA	1203

Search completed: January 9, 2006, 15:16:42
Job time : 1714.52 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model
Run on: January 8, 2006, 19:50:21 ; Search time 309.514 Seconds
(without alignments)
5092.624 Million cell updates/sec

Title: US-09-883-839-1-A336
Perfect score: 2162
Sequence: 1 ggaatccggctagacag.....gtggtttgtctctggaattc 2162

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues

Total number of hits satisfying chosen parameters: 9275266

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New:
1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3.*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	2158.4	99.8	2162	7	US-11-127-877-18
2	453	21.0	1423	7	US-11-136-527-2066
3	362.6	16.8	2955	7	US-11-136-527-2954
4	233	10.8	8372	7	US-11-136-527-684
5	137.8	9.1	2116	7	US-11-136-527-3819
6	194.6	9.0	1685	6	US-10-750-185-36071
7	194.6	9.0	1685	6	US-10-750-623-36071
8	187.6	8.7	1238	6	US-10-995-561-321
9	187.6	8.7	1498	6	US-10-995-561-320
10	187.6	8.7	86131	6	US-10-995-561-13298
11	177	8.2	3635	7	US-11-136-527-2101
12	172.6	8.0	1384	7	US-11-136-527-2159
13	158.8	7.3	1560	7	US-11-136-527-3742
14	158.8	7.3	1865	6	US-10-533-355-9
15	151.8	7.0	856	6	US-10-750-185-62128
16	141.4	6.5	1224	6	US-10-750-185-40492
17	141.4	6.5	1224	6	US-10-750-623-40492
18	141.4	6.5	1224	6	US-10-750-623-40492
19	125.6	5.8	600	7	US-11-136-527-6162
20	112.4	5.2	3985	7	US-11-136-527-3404
21	93.4	4.3	3219	7	US-11-136-527-4059
22	93.4	4.3	3295	7	US-11-136-527-3736
23	92.6	4.3	706	6	US-10-750-185-32790

C	24	92.6	4.3	706	6	US-10-750-623-32790	Sequence 32790, A
	25	88.6	4.1	1450	7	US-11-136-527-3841	Sequence 3841, Ap
	26	85.4	4.0	1339	7	US-11-136-527-4061	Sequence 4061, Ap
	27	85.4	4.0	2580	7	US-11-136-527-3525	Sequence 3525, Ap
	28	83.2	3.8	1915	7	US-11-068-686-3	Sequence 27, Appli
	29	83.2	3.8	1945	7	US-11-127-877-27	Sequence 3805, Ap
	30	82.8	3.8	2011	7	US-11-136-527-3805	Sequence 9095, Ap
	31	82.2	3.8	201	6	US-10-995-561-9109	Sequence 9109, Ap
	32	82.2	3.8	201	6	US-10-995-561-48688	Sequence 48688, A
	33	82.2	3.8	201	6	US-10-995-561-3843	Sequence 3843, Ap
	34	82.2	3.8	2156	7	US-11-136-527-3843	Sequence 20212, A
	35	81.8	3.8	600	6	US-10-750-185-20212	Sequence 20212, A
	36	81.8	3.8	600	6	US-10-750-623-20212	Sequence 50101, A
	37	81.2	3.8	810	6	US-10-750-185-50101	Sequence 50101, A
	38	81.2	3.8	810	6	US-10-750-623-50101	Sequence 2638, Ap
	39	78.4	3.6	1116	7	US-11-136-527-2638	Sequence 1, Appli
	40	76.6	3.5	2338	6	US-10-876-787-1	Sequence 26, Appli
	41	76.6	3.5	2347	7	US-11-127-877-28	Sequence 196, App
	42	76.2	3.5	2214	6	US-10-995-561-196	Sequence 199, App
	43	76.2	3.5	2338	6	US-10-995-561-199	Sequence 197, App
	44	76.2	3.5	2363	6	US-10-995-561-197	Sequence 195, App
	45	76.2	3.5	2422	6	US-10-995-561-195	

ALIGNMENTS

RESULT 1

US-11-127-877-18
; Sequence 18, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Marcel
; APPLICANT: Spittaels, Koenraad F. F.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; TITLE OF INVENTION: Amyloid-Beta Protein Production
; FILE REFERENCE: P27, 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 18
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: n is a, c, g, or t
US-11-127-877-18

Query Match 99.8% Score 2158.4; DB 7; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	GGAAATCCGGCTATAGGCAGAGGAGATGTCAGATGTCAGCTCGGTCCCTCCGCTGA	60
Db	1	GGAAATCCGGCTATAGGCAGAGGAGATGTCAGATGTCAGCTCGGTCCCTCCGCTGA	60
Qy	61	CGCTCTCTCTGTCCTAGCCAGGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC	120
Db	61	CGCTCTCTCTGTCCTAGCCAGGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC	120

QY 121 GCGAAAGGAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGTGCTCTGGCTACT 180
DB 121 GCGAAAGGAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGTGCTCTGGCTACT 180
QY 181 CGCAGAGCGCTCCGCGCGCGCTGAGTACCATGAGCAGCAGCGCTGCCCCCAGAAAG 240
DB 181 CGCAGAGCGCTCCGCGCGCGCTGAGTACCATGAGCAGCAGCGCTGCCCCCAGAAAG 240
QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCGAGACCCAGCGCGGTT 300
DB 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCGAGACCCAGCGCGGTT 300
QY 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGACGACCATGCGGTCCGAAACCGCA 360
DB 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCGACCATGCGGTCCGAAACCGCA 360
QY 361 CCAACTGGCGGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAAGG 420
DB 361 CCAACTGGCGGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAAGG 420
QY 421 CCATCAAGTATGCGCTCTACTCCATGCTGTGGTGGGCTCTTGGAAACTTCC 480
DB 421 CCATCAAGTATGCGCTCTACTCCATGCTGTGGTGGGCTCTTGGAAACTTCC 480
QY 481 TGGTCAATGATGATGTCAGATACCAAGATGAAGTGGCACCACCATCTACATTT 540
DB 481 TGGTCAATGATGATGTCAGATACCAAGATGAAGTGGCACCACCATCTACATTT 540
QY 541 TCAACTCTCTCTGGCAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAAT 600
DB 541 TCAACTCTCTCTGGCAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGAATGCGCATTTGGAAACCATCTTTGCAAGATAGTATCTCATAGATT 660
DB 601 ACCTAATGGGAATGCGCATTTGGAAACCATCTTTGCAAGATAGTATCTCATAGATT 660
QY 661 ACTATAACATGTTTCCAGCATATTCACCTCTGACCATGATGTTGATCCATACATTG 720
DB 661 ACTATAACATGTTTCCAGCATATTCACCTCTGACCATGATGTTGATCCATACATTG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGTAATCCCGGAATGCAAAATATCA 780
DB 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGTAATCCCGGAATGCAAAATATCA 780
QY 781 ATGTCTGCAACTGGATCTCTCTTCCAGCATGGTCTTCTGTAAATGTTTCATGGCTACAA 840
DB 781 ATGTCTGCAACTGGATCTCTCTTCCAGCATGGTCTTCTGTAAATGTTTCATGGCTACAA 840
QY 841 CAAATATACAGGCAAGGTTCCATAGATTGTACATACATCTCTCATCCAACTGGTACT 900
DB 841 CAAATATACAGGCAAGGTTCCATAGATTGTACATACATCTCTCATCCAACTGGTACT 900
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATGCGCAGTCTCATCA 960
DB 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATGCGCAGTCTCATCA 960
QY 961 TTACCGTGTCTATGCACTGATGATCTTGGCTCAAGAGTGTCCGATGCTCTTGGCT 1020
DB 961 TTACCGTGTCTATGCACTGATGATCTTGGCTCAAGAGTGTCCGATGCTCTTGGCT 1020
QY 1021 CCAGAAAGGAGCAGGATCTCGAAGGATCCAGGATGGTGTGGTGGTGGCTG 1080
DB 1021 CCAGAAAGGAGCAGGATCTCGAAGGATCCAGGATGGTGTGGTGGTGGCTG 1080
QY 1081 TGTTCATGCTGCTGCACTCCCATTTACATTTACGTCATCAATAAGCTTGGTTACAA 1140
DB 1081 TGTTCATGCTGCTGCACTCCCATTTACATTTACGTCATCAATAAGCTTGGTTACAA 1140
QY 1141 TCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
DB 1141 TCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTCTGGATGAAACTTCAACAGATGCTTCA 1260

DB 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTCTGGATGAAACTTCAACAGATGCTTCA 1260
QY 1261 GAGAGTCTGTATGCCAAACCTCTTCCAAATTTAGCAACAAATCCCAATTCGATTCGTC 1320
DB 1261 GAGAGTCTGTATGCCAAACCTCTTCCAAATTTAGCAACAAATCCCAATTCGATTCGTC 1320
QY 1321 AGAACACTAGAGACCCACCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
DB 1321 AGAACACTAGAGACCCACCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTCGAAAGCAGAAACTGCTCGTTTGCCTTAAACAGGCTCTCATGCCATTTCCACCTT 1440
DB 1381 AAAATCTCGAAAGCAGAAACTGCTCGTTTGCCTTAAACAGGCTCTCATGCCATTTCCACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATGATGTTGGAAGCAGGTTGCTTCAAGATGTTAGGAGG 1500
DB 1441 CACCAAGCTTAGAAGCCACCATGATGTTGGAAGCAGGTTGCTTCAAGATGTTAGGAGG 1500
QY 1501 CTCTAATTTCTCTAGGAAGTGCCTACTTTTAGTTCATCCAACTCTTCTCTCTGGCCA 1560
DB 1501 CTCTAATTTCTCTAGGAAGTGCCTACTTTTAGTTCATCCAACTCTTCTCTCTGGCCA 1560
QY 1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGGAAAGGAA 1620
DB 1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGGAAAGGAA 1620
QY 1621 TATACCAACCGAGAGTCCAGTCTGATGGAAGACACCCAGTGGAAACCAACCCATCTGTG 1680
DB 1621 TATACCAACCGAGAGTCCAGTCTGATGGAAGACACCCAGTGGAAACCAACCCATCTGTG 1680
QY 1681 GTATGTAATTTGAAGTCAATATAAAGTGGACCTTCTGTCTGTAAGATTTTATTTTCAA 1740
DB 1681 GTATGTAATTTGAAGTCAATATAAAGTGGACCTTCTGTCTGTAAGATTTTATTTCAA 1740
QY 1741 GCAAAATTTATGACCTCAACAAAGAGAAACCATCTTTTGTGTTAAAGTTCACCGTAGTAACA 1800
DB 1741 GCAAAATTTATGACCTCAACAAAGAGAAACCATCTTTTGTGTTAAAGTTCACCGTAGTAACA 1800
QY 1801 CATAAGTAAATGCTTACCTCTGATCAAAAGCACCCTTGAATGGAGGTCGAGTCTTTTATG 1860
DB 1801 CATAAGTAAATGCTTACCTCTGATCAAAAGCACCCTTGAATGGAGGTCGAGTCTTTTATG 1860
QY 1861 TGTCTTTCCAGGGAATGAATCCATTTTATTTTATGACTTTTAACTTTCAACTTTAAAT 1920
DB 1861 TGTCTTTCCAGGGAATGAATCCATTTTATTTTATGACTTTTAACTTTCAACTTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCACTCAATTTTCACTCTTGTGTTTGTATTTGTTTAAAAA 1980
DB 1921 TAGCATCTGGCTAAGGCACTCAATTTTCACTCTTGTGTTTGTATTTGTTTAAAAA 1980
QY 1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAAGGAGAGATAGCATGAAGGTAA 2040
DB 1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAAGGAGAGATAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCACTGTGCANCTGTAGAAAGGTTGATTCTCATGCACTNCAATACCT 2100
DB 2041 TCTGAAACACAGTCACTGTGCANCTGTAGAAAGGTTGATTCTCATGCACTNCAATACCT 2100
QY 2101 CCAAGAGTCACTCATGGGGATTTTTCATTTTAGGCTTTTCAAGTGGTGTCTCTGGAAT 2160
DB 2101 CCAAGAGTCACTCATGGGGATTTTTCATTTTAGGCTTTTCAAGTGGTGTCTCTGGAAT 2160
QY 2161 TC 2162
DB 2161 TC 2162

```
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2066
; LENGTH: 1423
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-2066

Query Match      21.0%; Score 453; DB 7; Length 1423;
Best Local Similarity 68.9%; Pred. No. 3e-127;
Matches 637; Conservative 0; Mismatches 285; Indels 3; Gaps 1;

Qy 406 CTTCCATGATCAGCGGCATCAGATCATGCGCTTACTTCCATCGTGTGGTGGGCG 465
Db 236 CGTCCCTGGCTGGCCATGCCATCACCAGCTTACTCGGCTGTGTGGCGGTGGGCG 295
Qy 466 TCTTCGGAATCTTCTGGTATGTGTGATGTGATGATGATGATGATGATGATGATG 525
Db 296 TGTGGGCAAGCTGCTGCTCATGTTTGGATGCTGCGGTACACTAAGCTGAAGCGGCA 355
Qy 526 CCAACATCTACATTTTCAACCTTGTCTGTGAGATGCTTTAGCACCAAGTACCGCT 585
Db 356 CCAACATCTACATTTTCAACCTTGTCTGTGAGATGCTTTAGCACCAAGTACCGCT 415
Qy 586 TCCAGAGTGAATTAACCTTAATGGAATGGAATGGAATGGAATGGAATGGAATGGA 645
Db 416 TCCAGAGCGGCAAGTACCTGATGGAACGTTGGCGTTTCGAGAGCTGCTGTGCAAG 475
Qy 646 TGATCTCCATAGATTACTATAACATGTTTCAACAGATATTCACCATCTGACCATG 705
Db 476 TGCTCTCCATGACTACTACAAATGTTTCAACAGATATTCACCATCTGACCATG 535
Qy 706 TTGATCGATACATTTGCAAGTGTGCACCTGTCAAGGCTTTAGATTTCCGTACTCC 765
Db 536 TGGACCGCTACATTTGGCGTGTGCACCTGTCAAGGCTTTGGACTTCGGACACCGG 595
Qy 766 ATGCCAAAATTAATATGTGTGCAATGTGATCTTCTTCCAGCATGCTTCTCTGTAA 825
Db 596 AGGCCAAGCTGATCAACATATGATCTGCGGTCTTGGCTTTCAGGTGTTGGGGTCC 655
Qy 826 TGTTTCATGGCTTACAAATAATACAGGCAAGTTTCCATAGATTGTACACTAACAT 885
Db 656 TGTTCATGGCAGTGAACCAACCCCGGATGGAGCAGTGTGTATGACGCTCCAGTTC 715
Qy 886 ATCCAACTGTGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCA 945
Db 716 GCCCCAGCTGTGTACTGGGACACTGTGACCAAGATCTGGGTCTTCTTGGCTTCT 775
Qy 946 TGCCAGTGTCTCATATTACGTTGTCTATGACATGATGATCTTCCGCTCAAGATGTC 1005
Db 776 TGCCCAATCTCATCATCACCCTGTGTATGCGCTCATGCTGCTGCGCTGCGCAGCTG 835
Qy 1006 GCATGCTCTCGGCTCCAAAGAAAGGACAGGAATCTTCAAGGATCACAGGATGTGC 1065
Db 836 GCCTGCTGTCCGGTTCGAAGGAGAGGACCCGACCTTGGCGGATCACGGCATGTGTC 895
Qy 1066 TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1125
Db 896 TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 955
Qy 1126 AAGCCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1182
Db 956 GGACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1015
Qy 1183 TTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCCCTTTATGATGATTTCTGGA 1242
```

```
Db 1016 TTGCGCTGGGCTACGCCAACAGCAGCGCTCAACCCGGTCTTCTACGCTTCTCTGGAGAGA 1075
Qy 1243 ACTTCAAAAGATGCTTTCAGAGAGTTCGTATCCCAACCTCTTTCACAAATTTGACAAACAA 1302
Db 1076 ACTTCAAGCGCTGCTTCCCGAGCTCTGTGCGGCGCTTGGCGGCGCAAGAACCGGCA 1135
Qy 1303 ACTCCACTCGAATTCGTGAGAACAC 1327
Db 1136 GCTCGCGCTGCCCGCAGGCCAC 1160

RESULT 3
US-11-136-527-2954
; Sequence 2954, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2954
; LENGTH: 2955
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-2954

Query Match      16.8%; Score 362.6; DB 7; Length 2955;
Best Local Similarity 62.8%; Pred. No. 1.9e-99;
Matches 560; Conservative 3; Mismatches 332; Indels 0; Gaps 0;

Qy 424 TCACGATCATGGCCCTTCTACTCCATCGTGTGCGTGTGGGGCTTTCGGAACCTTCTCG 483
Db 329 TCACCATCGTGGGGCTTCTACTTGGCTGTGTGTCATCGGGGGCTTCTGGGAACTGCGCTCG 388
Qy 484 TCATGTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 543
Db 389 TCATGTATGTGATGTCTCTCAGGACACCAAGATGAAGACAGTACCAACATTTACATATTA 448
Qy 544 ACCTTCTCTGCGCAGATGCTTACCCACAGTACCTTCCAGAGTGTGAATTAACC 603
Db 449 ATCTGGACCTGGCTGATACCTTGTCTTGTCTAACACTGCTCCCTTCCAGGAGACATCC 508
Qy 604 TAATGGGAACATGGCCATTTGGAAACCATCTTTTGCAGATAGTGTATCTCCATAGATTACT 663
Db 509 TACTGGGCTTCTGGCCATTTGGGATGCACTCTGCAAGACTGTCTATTCGCTATCGACTACT 568
Qy 664 ATAACATGTTTCAACAGATATTCACCTCTGACCATGATGATGATGATGATGATGATGATG 723
Db 569 ACAACATGTTTACAGCACTTTTACTCTGACCGCATGAGCTGAGACCGCTATGTGGCTA 628
Qy 724 TCTGCCACCTGTCAAGGCTTGTAGTTTCCGTTTCCGTTTCCGTTTCCGTTTCCGTTTCC 783
Db 629 TCTGCCACCTTATTCGTTGCTTGTGATGTTTGGATCCAGAAAGCCAGGCTGTATTATG 688
Qy 784 TCTGCAACTGGATCTCTCTTTCAGGCAATTTGGTCTTCTTCTGTAATGTTTTCATGCTACA 843
Db 689 TGGCCATATGGGCGCTGGCTTTCAGTGGTGTGTCTGTTGTTGTTGTTGTTGTTGTTGTTG 748
Qy 844 AATACAGGCAAGGTTTCCATAGATGATGATGATGATGATGATGATGATGATGATGATGATG 903
Db 749 AAGTGAAGATGAAGATGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 808
Qy 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTTTCATTTATGCGCAGTGTCTCATTA 963
Db 809 GCCTGTGTTTGGCCTATGCTATCTTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 868
```

QY 964 CCGTGTGCTATGACATGATCTTTCGCCCTCAAGAGTGTCCGATGCTCTCTGCTCCA 1023
DB 869 CTGTCTGTACAGCCTCATGATTCGACGACTTCGTGGTGTCTGCTCTTCAGGCTCCC 928
QY 1024 AAGAAAGACAGGAATCTTCAAGGATCACCAGGATGCTGTGTGGTGGTGGTGTGT 1083
DB 929 GGGAGNAGACCGAAACCTTCCGGCTATCACTCGACTGTGTGTGTGTGTGTGTGT 988
QY 1084 TCATCGTCTGTGCTCCATCTCCATTTACATTTACGTCAATATAAAGCTTTGGTTACAATCC 1143
DB 989 TTGTGGCTGTCTGGACGCTGTGCAGGTGTGTGTCTGTCTGTCTCAAGGACTGGGTGTTCAGC 1048
QY 1144 CAGAACTAGTCTCCAGACTGTTCTTGGCACTTCTGCATTTCTAGTGTACACACA 1203
DB 1049 CAGGTAGTGAAGTGCAGTTGCCATCTCTCGCTTCTGCACGCCCTGGGCTATGTCAACA 1108
QY 1204 GCTGCTCAACCCAGTCCCTTTATGCAATTTCTGATGAAATCTTCAACGATGCTTCAGAG 1263
DB 1109 GTTGTCTCAATCCATCTCTATGCTTCTCTGATGAGAACTTCAAGGCTGTCTTAGNA 1168
QY 1264 AGTTCGTATCCCACTCTTCCAACTTTCAGCAATTTAGCAACAACTCCACTCGAATTCG 1318
DB 1169 AGTTCGTGTGCTTTCATCCCTGCACCGGAGATGCAGGTTTCTGATCGTGTGCG 1223

RESULT 4

US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136, 527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-684

Query Match 10.8%; Score 233; DB 7; Length 8372;
Best Local Similarity 56.4%; Pred. No. 1.3e-59;
Matches 513; Conservative 0; Mismatches 315; Indels 81; Gaps 1;
QY 491 TGTGATTTGTCAGATACCAAGATGAAGACTGCCAACATCTACATTTTCAACCTTGC 550
DB 5100 TGTCTCTACAGCACCAAGATGAAGACAGCTACCAACATTTACATATTTAATCTGCG 5159
QY 551 TCTGGCAGATGCTTACGACACCAAGTACCTTCCCTTCCAGAGTGTGAATTAATCTGCG 610
DB 5160 ACTGGCTGATACCTGTCTTGTCAACTGTCCCTTCCAGGCGACAGACATCTACTGGG 5219
QY 611 AACATGCCATTTGGAAACCATCTTTGCAAGATGATGATCTCCATAGATTTACTATAACAT 670
DB 5220 CTTCGTGCCATTTGGGAATGCATCTGCAAGACTGTCATTTGCTATCGACTACTACACAT 5279
QY 671 GTTCACAGCATATTCACCTCTGCAACCATGATGTTGTATCGATACATTTGCACTGTGCA 730
DB 5280 GTTTCACAGCATTTTACTCTGACGCCATGAGCGTAGACCGCTATGTGCTATCTGCCA 5339
QY 731 CCTGTCAAGGCTTATAGATTTCCGTACTCCCGAATGCAAAATTAATCAATGTCTGCA 790
DB 5340 CCTATCCGTGCTTGTATGTTTGGACATCCAGAAAGCCAGGCTGTTAATGTGGCCAT 5399
QY 791 CTGGATCCTCTCTTCAGCCATTTGCTTCTGTAATGTTTCATGGCTTACAAACAAA----- 845
DB 5400 ATGGGCCCTTGGCTTCAAGTGTGTGTTCTGTGCTATCATGCTGTTTCAAGCAAGTGA 5459

QY 846 ----- 845
DB 5460 AGATGAAGGTCAGTGGGTGGTCTCTCCCTGAGCTCATTTAGTTTCCCATGGTCTTGTG 5519
QY 846 -----TACAGCAAGTTCATAGATTTGACACATAAATTTCTCTCATCC 889
DB 5520 GTCCCTCTGACCCCATTTTCTCTCTGACAGATCGAGTGCCTGGTGGAGATCCCTGCC 5579
QY 890 AACCTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTTCGGCTTCATTA 949
DB 5580 TCAGGACTATTGGGGCCCTGTATTCCCATCTGCACTCTCTTTTCTCTTCTCATCATCC 5639
QY 950 AGTGTCTCATATTACCGTGTGCTATGGAATCTTGGCCCTCAAGAGTGTCCGCAT 1009
DB 5640 TGTGCTGATCATCTCTGTCTGCTCAGCCTCATGATTCGAGACTTCGTGGTGTCCGCT 5699
QY 1010 GCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTTCGAAGGATTCACAGGATGCTGTGT 1069
DB 5700 GCTTTCAGGCTCCCGGAGAGGACCGAAACCTGCGCGTATCACTCGACTGGTGTGTGT 5759
QY 1070 GGTGTGTGCTGTGTTTCATGCTGTGCTGCACTCCCAATTCACATTTACGTCATCA 1129
DB 5760 AGTGTGTGCTGTGTTGTGGCTGTGCTGACGCTGTGCAAGTGTGTTGCTCTGCTTCA 5819
QY 1130 CTGTGTACATCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCT 1189
DB 5820 ACTGGTGTTCAGCCAGGTAGTGAGCTGCAATTCCTGCGCTTCTGACAGCCCT 5879
QY 1190 AGGTTTACAAACAGCTGCCTCAACCCAGTCTCTTATGATTTCTGGATGAAATTTCAA 1249
DB 5880 GGGCTATGTCAACAGTTGTCTCAATCCCATCTCTATGCTTCTTGGATGAGAACTTCAA 5939
QY 1250 AGCATGCTTTCAGAGATTTCTGTATCCCAACCTTTCCAACATGTGAGCAACAAAATCC 1309
DB 5940 GGCCTGCTTTAGAAAGTTCTGTGTCTTCATCCCTGCAACGGGAGATGCAAGTTTCTGA 5999
QY 1310 TCGAATTCG 1318
DB 6000 TCGTGTGCG 6008

RESULT 5

US-11-136-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136, 527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3819

Query Match 9.1%; Score 197.8; DB 7; Length 2116;
Best Local Similarity 53.2%; Pred. No. 2.5e-49;
Matches 443; Conservative 0; Mismatches 387; Indels 3; Gaps 1;
QY 430 TCATGGCCTCTACTCCATCGTGTGGTGGTGGTCTTTCGAAACTTCTCTGTCATCT 489
DB 504 TCACGTTTCTATCTTCTGTTGCTGTGCTGTGGTGGTGGTGGTGGTGGTGGTGGTGG 563
QY 490 ATGTGATTTGATACATACCAAGATGAAAGACTGCCAACCAATCTACATTTTCAACCTTG 549


```
Db      589  GGTATCTCTCGGTACGCCAACAGTGGCGCAACCCCATCTCTACGGCTTCCTTTTCAGA 530
Qy      1241  AAATCTCAACAGGATCTTC 1259
Db      529  CAATCTCAAGCGCTCTTC 511

RESULT 7
US-10-750-623-36071/c
; Sequence 36071, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WMI1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36071
; LENGTH: 1685
; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-623-36071

Query Match      9.0%; Score 194.6; DB 6; Length 1685;
Best Local Similarity 51.4%; Pred. No. 2e-48;
Matches 534; Conservative 0; Mismatches 489; Indels 16; Gaps 3;

Qy      225  GCTGCCCCACGACGCGCAGCAATTGCATGTATGCTTGGCTTGGCTACTCAAGTGTCTCC-C 283
Db      1537  GCAGCCCCACGGCCCCCATCAGCTGAGATGTTCCCCCAATGGACCGCTCTCTCCCTC 1478

Qy      284  AGCACCAGCCCGCGTTCTGGGTCAACTTGTCCCACTTAGTGGCAACCTGACCGACCC 343
Db      1477  CTCTCTAGCCCGACGCGCAGCAGCTGCGCGAAGCGGCGGAGCAGGGCCCCCGGGC 1418

Qy      344  ATGGGTCCGAACCGCACCAACCTGGCGGGAGAGACAGCTGTGCGCTCCGACCGGCAG 403
Db      1417  CGGCGCTGCAGCGGGATGGAAGNACCGGGCGAAGCGCTCCAGAACGGGACCTTGAG 1358

Qy      404  TCCCTCCATGATCACGGCCCATCAGATCATGGCCCTCTACTTCCATCGTGTGCGGTGGG 463
Db      1357  CGAGGGCCAGGCGAGCGCTATCTCTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1298

Qy      464  GCTCTTCGGAACCTTCTCTGTGTATGTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 523
Db      1297  GCTCTGTGGGAACCTTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1238

Qy      524  CACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCCTTAGCCACCAAGTACCTTGC 583
Db      1237  CACCAACATCTACATCTCTCAACCTTGGCCATCGCGGATGAGCTGTCTATGCTCAGCTGCC 1178

Qy      584  CTTCCAGAGTGTGAATTAACCTAATGGGAACATATGGCAACATTTGGAAACCATCTTTGCAAGAT 643
Db      1177  CTTCTGTGTACCTCCACATTTGCTTCCCACTGGCCCTTCCGCGCGCTACTCTGCCGCT 1118

Qy      644  AGTATCTCCATAGATTAATTAACATGTTTCAACGAGATATTACCTCTTGCACCATGAG 703
Db      1117  CGTGTCTCAGCGTGGACGAGTCAACATGTTTCAACGAGATCTACTGTCTGACTGTGCTTAG 1058

Qy      704  TGTGTATCGATACATTCGAGTCTGCCACCTGTCAAGCGCTTAGATTTCCGTACTTCCCGG 763
Db      1057  CGTGGACCGCTACGTGGCGGTGGTGACCCCATCAAGCGCGCAGCTACCGCGGCCAC 998

RESULT 8
US-10-995-561-321
; Sequence 321, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 321
; LENGTH: 1238
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-321

Query Match      8.7%; Score 187.6; DB 6; Length 1238;
Best Local Similarity 51.9%; Pred. No. 2.1e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

Qy      424  TCACGATCATGGCCCTCTACTCCATCGTGTGCGTGTGGGGCTTTCGGAACTTCTCTGG 483
Db      214  TCAGTATGATGTTGTTCAGATACCAAGATGAAGACTGCGCACCAACATCTACATTTTCA 543
Qy      484  TCATGTATGATGTTGTTCAGATACCAAGATGAAGACTGCGCACCAACATCTACATTTTCA 543
Db      274  TCATCTTCGTGATCTCTTCGCTACGCCAGATGAAGCGGTACCAACATCTACTCTGCTCA 333
Qy      544  ACCTTGTCTGGCAGATGCGCTTAGCCACCAAGTACCTTCCCTTCCAGAGTGTGAATACC 603
Db      334  ACCTGGCGGTAGCCGACGAGCTCTTATGTCTGAGCGTGGCTTCTGTCGCTCGCGCGG 393
```

QY 604 TAATGGACATCGCCATTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATTACT 663
Db 394 CCTGGGCCACTGGCCCTTCGGCTCGTGCTGCGCGGGTGCTCAGGGTCGACGGCC 453
QY 664 ATAACATGTTCCACGACATATTCACCCCTCTGCAACCATGAGTGTGTATCGATACATTCGAC 723
Db 454 TCAACATGTTCCACGAGGCTCTTGCTCTACCGTGTGCTCAGCGTGGACCGCTACGTGGCCG 513
QY 724 TCTGCCACCTGTCAAGCCCTTAGATTTCCGTAATCTCCCGAAATGCGAAATTTATCAATG 783
Db 514 TGGTGACCTCTGCGCGCGGACCTTACCGCGCGCCAGCGTGGCCAAAGCTCATCAACC 573
QY 784 TCTGCCAATCGATCTCTTACGACCATTTGGTCTCTCTGTAATGTTTCATGGCTTACAAACA 843
Db 574 TGGGCGGTGGCTGGCATCCCTGTGTGCTACTCTCCCAATGCGCATCTTCGCGACACCA 633
QY 844 AATACAGGCAAGGTTCCATAGATTGTACACTAAATTTCTCATCAACCTGTGTACTGGG 903
Db 634 GACGGCTCGCGGGCGGCGGCTGGCTGCAACCTGCAGTGGCCACACCCGCGCTGGT 693
QY 904 AAAACCTCGTAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCGAGTGTCTCATATTA 963
Db 694 CGGAGTTCGTGGTCTACACTTTCCTGCTGGCTTCTCTGCTGCGCGTGTCTGGCCATTG 753
QY 964 CCGTGTCTATGACTGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 754 GYCTGTCTACTGCTCATCTGCTGGCAAGATGCGCGCGCTGGCGCTGCGGCGCTGGC 813
QY 1024 AAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGGTGGTGGTGGTGGTGGT 1083
Db 814 AGAGCGCAGCGCTCGGAGAGAAATCACAGGCTGGTGGTGGTGGTGGTGGTGGTGGT 873
QY 1084 TCATCGTCTCTGACTGCCATTCACATTTACGTCATTAAGCTTGTGGTGTACATTC 1143
Db 874 TTGTGCTCTGCTGGATGCCCTTTCACGTTGGTGGTGGTGGTGGTGGTGGTGGTGG 933
QY 1144 CAGAACTAGTTCAGACTGTTTCTTGGCACTTCTGATGCTCTAGGTACAAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CACGTGCTCCCTTATCTCTCGAACAATTCGCGGATCTTC 981
QY 1204 GCTGCCTCAACCGACTCTTATGCAATTTCTGGATGAAACTTCAACAGGATGCTTC 1259
Db 982 GCTGCGCAACCCYATTCATGGTTCCTCTCCGACAATTCGCGGATCTTC 1037

RESULT 9

US-10-995-561-320
; Sequence 320, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 320
; LENGTH: 1498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-320

Query Match 8.7%; Score 187.6; DB 6; Length 1498;
Best Local Similarity 51.9%; Pred. No. 2.4e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;
QY 424 TCAGATCATGCCCTCTACTCCATCGTGCGTGGGCTCTTCGGAACCTCTCTCG 483
Db 214 TCGCTATCCAGTGCATCTACCGCTGTGTGCTGCTGGGCTGTGGGCAACGCTTGG 273

QY 484 TCATGTATGTGATTTGTCTAGATACACCAAGATGAAGACTGCCAACATCTTACATTTTCA 543
Db 274 TCATCTCTGTGATCTCTTGTCTACGCAAGATGAAGACGGCTACCAACATCTACCTGCTCA 333
QY 544 ACCTTGTCTTGGCAGATGCTTAGCCACGACGATACCTGCTCCCTTCCAGAGTGTGAATTACC 603
Db 334 ACCTGGCGGTAGCCGACGAGCTCTTCATGCTGAGCGTGGCTTCTGTGGCTGTGGCGG 393
QY 604 TAATGGAAACATGGCCATTGGAACCATCTTTTGAAGATAGTGTCTCATAGATTACT 663
Db 394 CCTTGGCCACTGGCCCTTCGGCTCGTGTCTGCGCGGGTGTCTCAGGTCGACGGCC 453
QY 664 ATAACATGTTCCACGACATATTCACCCCTCTGCAACCATGAGTGTGTATCGATACATTCGAC 723
Db 454 TCAACATGTTCCACGAGGCTCTTCTGTCTCACCGTGTCTCAGCGTGGACCGCTACGTGGCCG 513
QY 724 TCTGCCACCTGTCAAGCCCTTAGATTTCCGTAATCTCCCGAAATGCGAAATTTATCAATG 783
Db 514 TGGTGACCTCTGCGCGCGGACCTTACCGCGCGCCAGCGTGGCCAAAGCTCATCAACC 573
QY 784 TCTGCAACTGGAATCTCTCTTTCAGCCATTTGGTCTCTCTGTAATGTTTCATGGCTTACAAACA 843
Db 574 TGGGCGTGTGGCTGGCATCCCTGTGTGCTCACTCTCCCAATGCGCATCTTCGCGACACCA 633
QY 844 AATACAGGCAAGGTTCCATAGATTGTACACTAAATTTCTCATCAACCTGTGTACTGGG 903
Db 634 GACGGCTCGCGGGCGGCGGCTGGCTGCAACCTGCAGTGGCCACACCCGCGCTGGT 693
QY 904 AAAACCTCGTAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCGAGTGTCTCATATTA 963
Db 694 CGGAGTTCGTGGTCTACACTTTCCTGCTGGCTTCTCTGCTGCGCGTGTCTGGCCATTG 753
QY 964 CCGTGTCTATGACTGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 754 GYCTGTGCTACTGCTCATCTGCTGGCAAGATGCGCGCGCTGGCGCTGCGGCGCTGGC 813
QY 1024 AAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGGTGGTGGTGGTGGTGGT 1083
Db 814 AGCAGCGCAGCGCTCGGAGAGAAATCACAGGCTGGTGGTGGTGGTGGTGGTGGTGGT 873
QY 1084 TCATCGTCTCTGACTGCCATTCACATTTACGTCATTAAGCTTGTGGTGTGTGGTGGTGGT 1143
Db 874 TTGTGCTCTGCTGGATGCCCTTTCACGTTGGTGGTGGTGGTGGTGGTGGTGGTGG 933
QY 1144 CAGAACTAGTTCAGACTGTTTCTTGGCACTTCTGATGCTCTAGGTACAAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CACGTGCTCCCTTATCTCTCGAACAATTCGCGGATCTTC 981
QY 1204 GCTGCCTCAACCGACTCTTATGCAATTTCTGGATGAAACTTCAACAGGATGCTTC 1259
Db 982 GCTGCGCAACCCYATTCATGGTTCCTCTCCGACAATTCGCGGATCTTC 1037

RESULT 10

US-10-995-561-13298
; Sequence 13298, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13298
; LENGTH: 86131
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13298

Db 934 TGCGTCCCTTTCTTCATTGTCAACATCGTCAACCTGGCCTTTCACATGCGCCGAGGAACCC 993
 Qy 1155 TTCCAGACTGTTTCTTTGGCACTTCTGCATGTCTTAGTGTACAAACAGCTGCCTCAAC 1214
 Db 994 ACATCTGCGGCGCTCTATTCTTTGTGGTGTCTCTATCTTATGCCAATAGCTGTGCCAAC 1053
 Qy 1215 CGAGTCTTTATGCATTTCTGGATGAATACTTCAAAACGATGCTTTCAGAGAGTT 1267
 Db 1054 CCCCTGCTCTACGGCTTTCTCTCGGACACTTTCGCGAGAGCTTTCGGAAGGT 1106

 RESULT 13
 US-11-136-527-3742
 ; Sequence 3742, Application US/11136527
 ; Publication No. US20050287570A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wyeth
 ; APPLICANT: Mounse, William M
 ; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
 ; FILE REFERENCE: 031896-041000 (AM101086)
 ; CURRENT APPLICATION NUMBER: US/11/136,527
 ; CURRENT FILING DATE: 2005-05-25
 ; PRIOR APPLICATION NUMBER: US 60/574,294
 ; PRIOR FILING DATE: 2005-05-26
 ; NUMBER OF SEQ ID NOS: 362830
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 3742
 ; LENGTH: 1560
 ; TYPE: DNA
 ; ORGANISM: Rattus norvegicus
 US-11-136-527-3742

 Query Match 7.3%; Score 158.8; DB 7; Length 1560;
 Best Local Similarity 50.5%; Pred. No. 1.5e-37;
 Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;

 Qy 424 TCAGGATCAGGCCCTCTACTCCATCGCTGTGCGTGGGGCTCTTCGGAACCTTCTCGG 483
 Db 341 TAACTATCCAGTGCATCTATACGCGCTCGTGTCTGTGGGGCTTGGTAGGAACCCCTCG 400
 Qy 484 TCATGATGTGATTGTTCAGATATACACCAAGATGAAGACTGCCACCACCAATCTACATTTTCA 543
 Db 401 TCATATTCGTGATCCTTACGCTATGCCAAATGAAGACAGCACCACCAATCTACCTGTCTCA 460
 Qy 544 ACCTTGCTCTGGCAGATGSCCTTAGCCACCAGTACCCTGCCCTTCCAGAGTGTGAATTACC 603
 Db 461 ACCTGGCGGTGCTGATGAGCTCTTCATGTCTCAGTGTGCCATTTGTGGCCTTCGGCGGTG 520
 Qy 604 TAATGGAAACATGGCCATTTTGGAAACCATCTTTCCAGATAGTATCTCCATAGATTACT 663
 Db 521 CCCTGGCCCACTGGCCGTTGGGGCGGTGTGTGCCGCGAGTGTCTAGTGTGGACGCC 580
 Qy 664 ATACATGTTCCACAGCATATTCACCTCTGACCATGAGTGTGTGATCGATACATTGCGAG 723
 Db 581 TTAACATGTTTACCAGTGTCTTTCGCCCTCAAGTGTCTCAGGTGGAATGCTATGTGGCTG 640
 Qy 724 TCTGCCACCTGTCAAGGCCCTTAGATTTCGGTACTCCCGAAATGCCAAATATATCAATG 783
 Db 641 TAGTGCACCTCTCGGAGCTGCCACCTACCGCGGCCCGAGCGTGGCCAAAGTTAATCAACC 700
 Qy 784 TCTGCAACTGGAATCCCTCTCTTCAGCCCATTTGTCTTCTGTAAATGTTTATGTGCTACACAA 843
 Db 701 TGGGAGTGTGGCTAGCATCTTGTGTGTACCTTGGTGTACCTTGGCCATCGCAGTCTTCGCTGACAT 760
 Qy 844 AATACAGGCAAGTTTCCATAGATTGTATACATTAACATTCTCTCATCCAACTGGTACTCGG 903
 Db 761 GGCAGCTCTGTGGGGGTGAGCAATGAGTTTCCAACTGCACTGGCTCACCGGCTTGGT 820
 Qy 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCGCTTCATTATGCAAGTGTCTCATATTA 963
 Db 821 CTGCAGTCTTTGTGATCTATACTTTTTTGTGTGGGCTTCTACTCCGGTTCCTGGCTATCG 880
 Qy 964 CCGTGTGCTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGCAATGCTCTTGCTGCCA 1021

881	GATTATGTTACCTGCTTATCGTGGGCAAGATGCGTCTGTGGCCCTCGGGCTGGCTGGC	940
1024	AAGAAAAGGACAGGAATCTTCGAAGGATCACCAAGATGGTCTGGTGGTGGTGGCTGGTGT	1083
941	AACAACGGAGACGCTCAGAGAAGAAGATCACTAGGCTCGTGCTAAATGGTGGTGA	1000
1084	TCATCGTCTGTGGACATCCCATTCACATTTACGATCATTTAAAGCCCTCGGTACAAATCC	1143
1001	TTGTGCTATGCTGGATGCCATTCATGTAGTGCAGCTTCTGAATCTGTTTGTCAACAGCC	1060
1144	CAGAACTACGTTCCAGACTGTTTCTTTGGCACTTCTGCATATGCTCTAGGTTACAAACA	1203
1061	TCGATGCCATGTCAACCATGTGTCCCTCATCTCAGCTATGCG-----AACA	1108
1204	GCTGCGCTCAACCCAGTCCCTTTATGCACTTCTGGATGAAAACCTCAACAGATGCTTC	1259
1109	GCTGTGCCAACCGATCTCTATGGTTTCTCTCAGACAACTTCGACGGCTCTTTC	1164

```

RESULT 14
US-10-533-355-9
; Sequence 9, Application US/10533355
; Publication NO. US20050272040A1
; GENERAL INFORMATION:
; APPLICANT: University of Medicine and Dentistry of New Jersey
; APPLICANT: Black, Ira B.
; TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
; FILE REFERENCE: UMD-0016
; CURRENT APPLICATION NUMBER: US/10/533,355
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: US 60/422,986
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1865
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-533-355-9

```

Qy	844	AATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCATCCAACTGTGTACTGGG	903
Db	609	GGCCAGCTCGTGGGGGTGAGGCAGTAGCTTGC AACCTGCACCTGGCCCTCAACCCGGCGCTGGT	668
Qy	904	AAAACCTCGTGAAGATCTGTGTTTTTCATCTTGCGCTTCATTATGCCAGTGCTCATCATTA	963
Db	669	CTCGAGTCTTTGTGATCTATACTTTTTTTGTGGGCTTCC TACTCCGGTTCTGGCTATCG	728
Qy	964	CCGTGTGCTATGACATGATCTTCGGCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCA	1023
Db	729	GATTATGTTACCTGTTTCATCTGCGGCAAGATCGTCTGTGGCCCTCGCGGCTGGCTGGC	788
Qy	1024	AAGAAAGGACAGGAATCTTCGAAGATCACAGGATGGTGTGCTGGTGGTGGCTGTGT	1083
Db	789	AACAACGGAGGCGCTCAGAGAAGAAGACTACTAGGCTCGTGTCTAAATGGTGGTGACTGTCT	848
Qy	1084	TCATCGTCTGCTGGACTCCCATTCACATTTACGTCTATCATTAAGCGCTTGGTTTACAAATCC	1143
Db	849	TTGTGTATGCTGGATGCCAATCTATGTAGTCAGCTTCTGAACTCTGTTGTACCAGCC	908
Qy	1144	CAGAAACTAGTTTCCAGACGTGTTTCTTGGCACTTCTGCAATTGCTCTAGGTTACACAAACA	1203
Db	909	TCGATGCCACTGTCAACCATGTGCCCTCATCTCAGCTATGCC-----AACA	956
Qy	1204	GCTGCGCTCAACCCAGTCCTTTATGCAATTTCTGGATGAAACATTCACAAACGATGTTTC	1259
Db	957	GCTGTGCCAACCCGATTCCTATGTGTTTCTCTCAGACAACTTCGACGCTCTTTC	1012

```

RESULT 15
US-10-750-185-62128/c
; Sequence 62128, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM11100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 62128
; LENGTH: 856
; TYPE: DNA
; ORGANISM: Bovine 19866881260208
US-10-750-185-62128

```

Search completed: January 9, 2006, 15:42:35

Job time : 310.514 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 17:55:42 ; Search time 367.698 Seconds
(without alignments)
10451.753 Million cell updates/sec

Title: US-09-883-839-1-T365
Perfect score: 2162
Sequence: 1 ggaattccggctatagcag.....gtggtttgttcctcgaattc 2162

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PPCTUS_COMB.seq.*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2158.4	99.8	2162	US-09-351-198-1	Sequence 1, Appli
2	2158.4	99.8	2162	US-09-113-426-1	Sequence 1, Appli
3	2158.4	99.8	2162	US-09-016-434-1379	Sequence 1379, Ap
4	2148.8	99.4	2162	US-09-355-709C-7	Sequence 7, Appli
5	2136.4	98.8	2160	US-08-188-275A-1	Sequence 1, Appli
6	1531.4	71.8	1610	US-08-889-108-7	Sequence 7, Appli
7	1551.4	71.8	1610	PCT-US94-10358-7	Sequence 7, Appli
8	1198.2	55.4	1203	US-09-826-509-544	Sequence 544, App
9	1179	54.5	2229	US-09-214-904-1	Sequence 1, Appli
10	1163.6	53.8	1182	US-09-826-509-546	Sequence 546, App
11	1147	53.1	1981	US-08-387-707-15	Sequence 15, Appl
12	1147	53.1	1981	US-08-405-271A-15	Sequence 15, Appl
13	1131.8	52.3	2135	US-08-430-286A-1	Sequence 1, Appli
14	1100.6	50.9	1618	US-08-889-108-1	Sequence 1, Appli
15	1100.6	50.9	1618	US-08-889-108-3	Sequence 3, Appli
16	1100.6	50.9	1618	US-08-120-601B-1	Sequence 1, Appli
17	1100.6	50.9	1618	US-08-120-601B-3	Sequence 3, Appli
18	1100.6	50.9	1618	PCT-US94-10358-1	Sequence 1, Appli
19	1100.6	50.9	1618	PCT-US94-10358-3	Sequence 3, Appli
20	1072.6	49.6	1610	US-09-761-962A-16	Sequence 16, Appl
21	918	42.5	1542	US-09-761-962A-4	Sequence 4, Appli
22	916.6	42.4	1365	US-09-761-962A-11	Sequence 11, Appl
23	916.6	42.4	1423	US-09-761-962A-1	Sequence 1, Appli
24	915.2	42.3	1334	US-09-761-962A-3	Sequence 3, Appli

25	915.2	42.3	1729	3	US-09-761-962A-9	Sequence 9, Appli
26	915.2	42.3	2045	3	US-09-761-962A-10	Sequence 10, Appl
27	895.2	41.4	1346	3	US-09-761-962A-12	Sequence 12, Appl
28	803.6	37.2	1238	3	US-09-761-962A-2	Sequence 2, Appli
29	709.8	32.8	1257	3	US-09-761-962A-5	Sequence 5, Appli
30	695.2	32.2	830	3	US-08-387-707-13	Sequence 13, Appl
31	695.2	32.2	830	3	US-08-405-271A-13	Sequence 7, Appli
32	454.2	21.0	1275	3	US-09-341-446B-7	Sequence 5, Appli
33	452.6	20.9	1275	3	US-09-341-446B-5	Sequence 1405, Ap
34	442.4	20.5	1773	3	US-09-016-434-1405	Sequence 1, Appli
35	441.6	20.4	1829	2	US-08-411-859-1	Sequence 7, Appli
36	441.6	20.4	1829	3	US-08-387-707-7	Sequence 7, Appli
37	441.6	20.4	1829	3	US-08-405-271A-7	Sequence 3, Appli
38	441.6	20.4	2218	3	US-09-214-904-3	Sequence 1, Appli
39	441.6	20.4	2219	3	US-08-432-174A-1	Sequence 3, Appli
40	441.6	20.4	2272	3	US-08-147-592A-3	Sequence 3, Appli
41	441.6	20.4	2272	3	US-08-232-694A-3	Sequence 3, Appli
42	440.8	20.4	998	3	US-08-432-174A-3	Sequence 536, App
43	440.8	20.4	1119	3	US-09-826-509-538	Sequence 5, Appli
44	437.8	20.2	441	3	US-09-530-880-5	Sequence 1, Appli
45	433.2	20.0	1142	3	US-08-765-743-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-351-198-1
; Sequence 1, Application US/09351198
; Patent No. 6335168
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S
; APPLICANT: Yu, Lei
; APPLICANT: Tischfield, Jay A.
; TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THEREON
; FILE REFERENCE: 600-1-226N
; CURRENT APPLICATION NUMBER: US/09/351,198
; CURRENT FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: 60/092,402
; EARLIER FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2051)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
; US-09-351-198-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	GGAATTCGGCTATAGGCAGAGGAGATGTGATGTCTCAGCTCGTCCCTCCGCTCGA	60
Db	1	GGAATTCGGCTATAGGCAGAGGAGATGTGATGTCTCAGCTCGTCCCTCCGCTCGA	60
Qy	61	CGCTCCTCTCTGCTCTCAGCCAGGACTGGTTTCTTAAGAAACAGCAGGCTGTGGCAGC	120
Db	61	CGCTCCTCTCTGCTCTCAGCCAGGACTGGTTTCTTAAGAAACAGCAGGCTGTGGCAGC	120
Qy	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT	180

APPLICANT: Yu, Lei
APPLICANT: Tischfield, Jay A.
TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
TITLE OF INVENTION: BASED THEREON
FILE REFERENCE: 600-1-226
CURRENT APPLICATION NUMBER: US/09/113,426
CURRENT FILING DATE: 1998-07-10
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 2162
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (2063)
OTHER INFORMATION: No. 6337207 feature for this position in GeneBank.
FEATURE:
NAME/KEY: misc feature
LOCATION: (2091)
OTHER INFORMATION: No. 6337207 feature for this position in GeneBank.
US-09-113-426-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	GGAATCCGGCTATAGGCAGAGGAGAATGTCAGATGTCAGTCCGGTCCCTCCGGCTGA	60
Db	1	GGAATCCGGCTATAGGCAGAGGAGAATGTCAGATGTCAGTCCGGTCCCTCCGGCTGA	60
Qy	61	CGCTCCTCTGCTCAGCCAGGACTGGTTCTGTAAAGAAACAGCAGGAGCTGGGAGC	120
Db	61	CGCTCCTCTGCTCAGCCAGGACTGGTTCTGTAAAGAAACAGCAGGAGCTGGGAGC	120
Qy	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAACCCGAAAGTCTCGGTGCTCTCGGTACCT	180
Db	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAACCCGAAAGTCTCGGTGCTCTCGGTACCT	180
Qy	181	CGCACAGCGGTGCCCGCGCGCTCAGTACCATAGGACAGCAGCGCTGCCGCCACGAA	240
Db	181	CGCACAGCGGTGCCCGCGCGCTCAGTACCATAGGACAGCAGCGCTGCCGCCACGAA	240
Qy	241	CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGGTT	300
Db	241	CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGGTT	300
Qy	301	CCTGGGTCACTGTCCCACTTAGATGCGCAACCTGTCCGACCATGCGGTCCGAAACGCA	360
Db	301	CCTGGGTCACTGTCCCACTTAGATGCGCAACCTGTCCGACCATGCGGTCCGAAACGCA	360
Qy	361	CCAACTCTGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG	420
Db	361	CCAACTCTGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG	420
Qy	421	CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTGGAAACTTCC	480
Db	421	CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTGGAAACTTCC	480
Qy	481	TGGTCATGTATGATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT	540
Db	481	TGGTCATGTATGATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT	540
Qy	541	TCAACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGAATT	600
Db	541	TCAACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGAATT	600
Qy	601	ACCTAAATGGGAACATGGCCATTTGGAAACCATCTTTTGGCAAGATAGTATCTCCATAGT	660
Db	601	ACCTAAATGGGAACATGGCCATTTGGAAACCATCTTTTGGCAAGATAGTATCTCCATAGT	660
Qy	661	ACTATAACATGTTTACCAGCATATTCACCCCTCTGCACCATGAGTGTTCATGATACATG	720

Db	661	ACTATAACATGTTTACCAGCATATTCACCCCTCTGCACCATGAGTGTTCATGATGATACATG	720
Qy	721	CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATATATCA	780
Db	721	CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATATATCA	780
Qy	781	ATGCTGCAACTGGATCCTCTCTTCAGCCATGGTCTTCTGTAAATGTTATGGCTACAA	840
Db	781	ATGCTGCAACTGGATCCTCTCTTCAGCCATGGTCTTCTGTAAATGTTATGGCTACAA	840
Qy	841	CAAAATACAGGCAAGGTTCCATAGATGTACATTAACATTTCTCATCCACCTGGTACT	900
Db	841	CAAAATACAGGCAAGGTTCCATAGATGTACATTAACATTTCTCATCCACCTGGTACT	900
Qy	901	GGGAAAACCTCGTGAAGATCTGTTTTCATCTTCGCTTCATTTATGCCAGTGTCTATCA	960
Db	901	GGGAAAACCTCGTGAAGATCTGTTTTCATCTTCGCTTCATTTATGCCAGTGTCTATCA	960
Qy	961	TTACCGTGTCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Db	961	TTACCGTGTCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Qy	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080
Db	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080
Qy	1081	TGTTCACTGCTGCTGGACTCCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACAA	1140
Db	1081	TGTTCACTGCTGCTGGACTCCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACAA	1140
Qy	1141	TCCAGAAAACCTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA	1200
Db	1141	TCCAGAAAACCTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA	1200
Qy	1201	ACAGTGCCTTCAACCCAGTCTTTATGATTTCTGGAATGAAAACCTTCAACGATGCTTCA	1260
Db	1201	ACAGTGCCTTCAACCCAGTCTTTATGATTTCTGGAATGAAAACCTTCAACGATGCTTCA	1260
Qy	1261	GAGAGTCTGTATCCCAACCTCTTCCAACTTCCAGCAATGAGCAACAAATCCCACTCGT	1320
Db	1261	GAGAGTCTGTATCCCAACCTCTTCCAACTTCCAGCAATGAGCAACAAATCCCACTCGT	1320
Qy	1321	AGAACACTAGAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
Db	1321	AGAACACTAGAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
Qy	1381	AAAATCTGGAAGCAGAAAACCTCGTTCGCTTAAACAGGCTCTCATGCCATTTCCGACCTT	1440
Db	1381	AAAATCTGGAAGCAGAAAACCTCGTTCGCTTAAACAGGCTCTCATGCCATTTCCGACCTT	1440
Qy	1441	CACCAAGCTTAGAAGCCACCATGTTATGGAAGCAGGTTGCTTCAAGAAATGTTAGGAGG	1500
Db	1441	CACCAAGCTTAGAAGCCACCATGTTATGGAAGCAGGTTGCTTCAAGAAATGTTAGGAGG	1500
Qy	1501	CTCTAATCTCTAGGAAAGTCCCTACTTTTAGGTCTATCCAACTCTTCTCTCTGGCCA	1560
Db	1501	CTCTAATCTCTAGGAAAGTCCCTACTTTTAGGTCTATCCAACTCTTCTCTCTGGCCA	1560
Qy	1561	CTCTGCTCTGCATATGAGGAGCAGCCAAAAGTAAAGTGGAGCATTTGGAAAGAAAGAA	1620
Db	1561	CTCTGCTCTGCATATGAGGAGCAGCCAAAAGTAAAGTGGAGCATTTGGAAAGAAAGAA	1620
Qy	1621	TATACCAACCCGAGGAGTCCAGTTTGGAAAGCAGCCAGTGGAAACCAACCCATCGTG	1680
Db	1621	TATACCAACCCGAGGAGTCCAGTTTGGAAAGCAGCCAGTGGAAACCAACCCATCGTG	1680
Qy	1681	GTATGTGAATGAGTCAATATAAGGTCACCTCTCTGTCTGTAAAGATTTTATTTTCAA	1740
Db	1681	GTATGTGAATGAGTCAATATAAGGTCACCTCTCTGTCTGTAAAGATTTTATTTCAA	1740
Qy	1741	GCAATATTTATGACCTTCAACAAAGAGAAACCATCTTTTGTGTAAAGTTTCCCGTAGTAA	1800

Db 1741 GCAATATTTATGACCTCAACAAGAAACCATCTTTTGTAAAGTTCCAGCTAGTAACA 1800
QY 1801 CATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCCGAGCTTTTATG 1860
Db 1801 CATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCCGAGCTTTTATG 1860
QY 1861 TGTGTTTTGCAAGGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTGTTTTGCAAGGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTGTATGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTGTATGTTTAAAAA 1980
QY 1981 AATAACATCTTTTCACTAGCTCCATAATGCAAGGGAAGATTAAGCATGAAGGTAA 2040
Db 1981 AATAACATCTTTTCACTAGCTCCATAATGCAAGGGAAGATTAAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCACTGTCANCTGTAGAAAGTTGATTTCTATGCACTNCAATACIT 2100
Db 2041 TCTGAAACACAGTCACTGTCANCTGTAGAAAGTTGATTTCTATGCACTNCAATACIT 2100
QY 2101 CAAAGAGTCATCATCGGGGATTTTTCATTTCTTAGCTTTTCACTGCTTCTGGAAT 2160
Db 2101 CAAAGAGTCATCATCGGGGATTTTTCATTTCTTAGCTTTTCACTGCTTCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 3

US-09-016-434-1379
Sequence 1379, Application US/09016434
Patent No. 6500938
GENERAL INFORMATION:
APPLICANT: Janice Au-Young
APPLICANT: Jeffrey J. Seilhamer
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
NUMBER OF SEQUENCES: 1490
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/016,434
FILING DATE: HEREWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1379:
SEQUENCE CHARACTERISTICS:
LENGTH: 2162 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 9452072
US-09-016-434-1379
Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGAGAGGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGAGAGGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTCTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
Db 61 CGCTCCTCTCTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
QY 121 GGCAGAAAGGAGCGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTTCTGGCTACCT 180
Db 121 GGCAGAAAGGAGCGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTTCTGGCTACCT 180
QY 181 CGCAGAGCGGTCCCGCGCGCTCAGTACCATGGAAGAGCGCTGCCCCACGAAACG 240
Db 181 CGCAGAGCGGTCCCGCGCGCTCAGTACCATGGAAGAGCGCTGCCCCACGAAACG 240
QY 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCCGGTT 300
Db 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCCGGTT 300
QY 301 CTGGGTCAACTGTCTCCCACTTAGATGGAACCTGTGCCAGCCATCGGTCCGAAACCGCA 360
Db 301 CTGGGTCAACTGTCTCCCACTTAGATGGAACCTGTGCCAGCCATCGGTCCGAAACCGCA 360
QY 361 CCAATCTGGCGGGAGAGACGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
Db 361 CCAATCTGGCGGGAGAGACGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
QY 421 CCATCAGATCATGGCCCTCTACTCCATGCTGGTGGTGGGCTCTTCGGAACCTTC 480
Db 421 CCATCAGATCATGGCCCTCTACTCCATGCTGGTGGTGGGCTCTTCGGAACCTTC 480
QY 481 TGGTCATGTATGTGATTTGTTCAGATACCAAGATGAAGACTGCCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATTTGTTCAGATACCAAGATGAAGACTGCCAACATCTACATTT 540
QY 541 TCAACCTTGCTCTGGCAGATGCTTAGCCACCATGACCTCCCTCCGCTTCCAGAGTGAAT 600
Db 541 TCAACCTTGCTCTGGCAGATGCTTAGCCACCATGACCTCCCTCCGCTTCCAGAGTGAAT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCCATAGATT 660
QY 661 ACTATAACATGTTCACCGACTATTCACCTCTGCAACCATGAGTGTGTGATCGATATTG 720
Db 661 ACTATAACATGTTCACCGACTATTCACCTCTGCAACCATGAGTGTGTGATCGATATTG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGTTACTCCCGAAATGCCAAATTTATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGTTACTCCCGAAATGCCAAATTTATCA 780
QY 781 ATGTCGTGAACCTGGATCCTCTCTCAGCCATTTGGTCTTCTGTAAGTTTCATGGCTACAA 840
Db 781 ATGTCGTGAACCTGGATCCTCTCTCAGCCATTTGGTCTTCTGTAAGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATACTTCTCATCAACCTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATACTTCTCATCAACCTGGTACT 900
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTCGCTTCATATGCGAGTCTCATCA 960
Db 901 GGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTCGCTTCATATGCGAGTCTCATCA 960

Qy	961	TTACCGTGTGCTAGTATGATCTTGGCCCTCAAGAGTGTCCGCAATGCTCTCTGGCT	1020
Db	961	TTACCGTGTGCTAGTATGATCTTGGCCCTCAAGAGTGTCCGCAATGCTCTCTGGCT	1020
Qy	1021	CCAAAGAAAGGACAGGAATCTTCCGAGGATCACCAGGATGGTCTGGTGGTGGCTG	1080
Db	1021	CCAAAGAAAGGACAGGAATCTTCCGAGGATCACCAGGATGGTCTGGTGGTGGCTG	1080
Qy	1081	TGTTTCATGCTGTGAGTCCCATTCACATTTACGTCATCATTTAAAGCCCTTGGTTACAA	1140
Db	1081	TGTTTCATGCTGTGAGTCCCATTCACATTTACGTCATCATTTAAAGCCCTTGGTTACAA	1140
Qy	1141	TCCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGATGCTCTAGGTTACAA	1200
Db	1141	TCCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGATGCTCTAGGTTACAA	1200
Qy	1201	ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTCA	1260
Db	1201	ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTCA	1260
Qy	1261	GAGAGTCTGTATCCCAACCTCTTCCAAATTTGAGCAACAAAATCCACTCGAATTCGTC	1320
Db	1261	GAGAGTCTGTATCCCAACCTCTTCCAAATTTGAGCAACAAAATCCACTCGAATTCGTC	1320
Qy	1321	AGAACCTAGAGCACCCCTCCAGCGCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
Db	1321	AGAACCTAGAGCACCCCTCCAGCGCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
Qy	1381	AAATCTGGAAGCAGAACTGCTCGTTGCCCTAACAGGGTCTCATGCAATTCGACCTT	1440
Db	1381	AAATCTGGAAGCAGAACTGCTCGTTGCCCTAACAGGGTCTCATGCAATTCGACCTT	1440
Qy	1441	CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGTTCAAGAAATGTAGGAGG	1500
Db	1441	CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGTTCAAGAAATGTAGGAGG	1500
Qy	1501	CTCTAATCTCTAGGAAGTGCCTACTTTTAAAGTATCCCACTTCTTCTCTCGGCCA	1560
Db	1501	CTCTAATCTCTAGGAAGTGCCTACTTTTAAAGTATCCCACTTCTTCTCTCGGCCA	1560
Qy	1561	CTCTGCTCTGACATTAAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGAAAGAA	1620
Db	1561	CTCTGCTCTGACATTAAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGAAAGAA	1620
Qy	1621	TATACCAACCCAGGAGTCCAGTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG	1680
Db	1621	TATACCAACCCAGGAGTCCAGTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG	1680
Qy	1681	GTATGTGAATTTGAAGTCAATAAAGGTGACCCCTTCTGCTGTGAAGATTTTATTTTCAA	1740
Db	1681	GTATGTGAATTTGAAGTCAATAAAGGTGACCCCTTCTGCTGTGAAGATTTTATTTTCAA	1740
Qy	1741	GCAATATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA	1800
Db	1741	GCAATATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA	1800
Qy	1801	CATAAGTAAATGCTTACCTCTGATCAAAAGCACTTTGAATGGAAGTCCGAGTCTTTTAA	1860
Db	1801	CATAAGTAAATGCTTACCTCTGATCAAAAGCACTTTGAATGGAAGTCCGAGTCTTTTAA	1860
Qy	1861	TGTTTTGCAAGGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT	1920
Db	1861	TGTTTTGCAAGGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT	1920
Qy	1921	TAGCATCTGGCTTAAGGCATCATTTTCACTCCTATTTCTTGGTTTGTATTTGTTAAAAA	1980
Db	1921	TAGCATCTGGCTTAAGGCATCATTTTCACTCCTATTTCTTGGTTTGTATTTGTTAAAAA	1980
Qy	1981	AATAACATCTCTTTTCATCTAGTCCATAATTTGCAAGGGAAGATTTAGCATGAAGGTAA	2040
Db	1981	AATAACATCTCTTTTCATCTAGTCCATAATTTGCAAGGGAAGATTTAGCATGAAGGTAA	2040
Qy	2041	TCTGAAACACAGTCATGTGTCACTGTAGAAAAGTTGATTTCTATGCACTNCAAAATCTT	2100
Db	2041	TCTGAAACACAGTCATGTGTCACTGTAGAAAAGTTGATTTCTATGCACTNCAAAATCTT	2100
Qy	2101	CCAAAGAGTCATCATGGGGATTTTTCATTTCTAGGCTTTTCTCTGGAAT	2160
Db	2101	CCAAAGAGTCATCATGGGGATTTTTCATTTCTAGGCTTTTCTCTGGAAT	2160
Qy	2161	TC 2162	
Db	2161	TC 2162	
RESULT 4			
US-09-355-709C-7			
; Sequence 7, Application US/09355709C			
; Patent No. 6538120			
; GENERAL INFORMATION:			
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin			
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...			
; FILE REFERENCE: 101195-15			
; CURRENT APPLICATION NUMBER: US/09/355,709C			
; CURRENT FILING DATE: 1999-09-27			
; PRIOR APPLICATION NUMBER: DE 197 03 925.1			
; PRIOR FILING DATE: 1997-02-03			
; NUMBER OF SEQ ID NOS: 7			
; SOFTWARE: PatentIn Ver. 2.1			
; SEQ ID NO 7			
; LENGTH: 2162			
; TYPE: DNA			
; ORGANISM: Artificial Sequence			
; FEATURE:			
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic			
; OTHER INFORMATION: Clone			
; OTHER INFORMATION: cdna encoding human opiate receptor			
; NAME/KEY: unsure			
; LOCATION: (2063)			
; OTHER INFORMATION: n = unknown			
; NAME/KEY: unsure			
; LOCATION: (2091)			
; OTHER INFORMATION: n = unknown			
; US-09-355-709C-7			
Query Match 99.4%; Score 2148.8; DB 3; Length 2162;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 2152; Conservative 0; Mismatches 2; Indels 0; Gaps 0;			
Qy	9	GGCTATAGGCGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCTCCCTCCGCTCAGCTCCTC	68
Db	9	GGCTATAGGCGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCTCCCTCCGCTCAGCTCCTC	68
Qy	69	TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG	128
Db	69	TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG	128
Qy	129	GAACGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTCTACCTCGCACAGC	188
Db	129	GAACGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTCTACCTCGCACAGC	188
Qy	189	GGTCCCGCCCGCGCTCAGTACCATGGAAGAGAGCTGTGCCCCCAGCAAGCCGACGCAAT	248
Db	189	GGTCCCGCCCGCGCTCAGTACCATGGAAGAGAGCTGTGCCCCCAGCAAGCCGACGCAAT	248
Qy	249	TGCACTGATGCTTGGGCTACTCAAGTTGCTCCCGACACCCAGCCCGGTTCTCTGGGTC	308
Db	249	TGCACTGATGCTTGGGCTACTCAAGTTGCTCCCGACACCCAGCCCGGTTCTCTGGGTC	308
Qy	309	AACCTTGCTCCCACTTAGATGGCAACTGTCCGACCACTCGCTCCGAAACCGCACCAATCTG	368
Db	309	AACCTTGCTCCCACTTAGATGGCAACTGTCCGACCACTCGCTCCGAAACCGCACCAATCTG	368
Qy	369	GGCGGAGAGACAGCCTGTGCCCTCCGACCGGCAAGTCCCTCAATGATCAGCGCCATCAG	428

Db 369 GCGGGAGAGACAGCGCTGTGCCCTCCGACGGCAGTCCCTCATGATCACGGCCATCAGC 428
Qy 429 ATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAAACTTCTCGTTCATG 488
Db 429 ATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAAACTTCTCGTTCATG 488
Qy 489 TATGTGATTTGTGAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTT 548
Db 489 TATGTGATTTGTGAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTT 548
Qy 549 GCTCTGGCAGATGCCCTTACCCACAGTACCCCTGCCCTTCCAGAGTGTGAATTACCTAATG 608
Db 549 GCTCTGGCAGATGCCCTTACCCACAGTACCCCTGCCCTTCCAGAGTGTGAATTACCTAATG 608
Qy 609 GGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAAC 668
Db 609 GGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAAC 668
Qy 669 ATGTTCCACAGCATATTTCAACCTCTGCACATGAGTGTTCGATACATTCGAGTCTGC 728
Db 669 ATGTTCCACAGCATATTTCAACCTCTGCACATGAGTGTTCGATACATTCGAGTCTGC 728
Qy 729 CACCTGTCAAGGCCCTTAGATTTCCGTAATTCGCTTCCGTAATGTTTATCAATGCTGC 788
Db 729 CACCTGTCAAGGCCCTTAGATTTCCGTAATTCGCTTCCGTAATGTTTATCAATGCTGC 788
Qy 789 AACTGATCCTCTCTTCAGCCATTTGTTCTCTGTAATGTTTATGCTACCAACCAATAC 848
Db 789 AACTGATCCTCTCTTCAGCCATTTGTTCTCTGTAATGTTTATGCTACCAACCAATAC 848
Qy 849 AGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACTGGGAAAC 908
Db 849 AGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACTGGGAAAC 908
Qy 909 CTGCGTAAGATCTGTGTTTTCATCTTCGCTTCATTATGCCAGTGTCTCATATTACCGTG 968
Db 909 CTGCGTAAGATCTGTGTTTTCATCTTCGCTTCATTATGCCAGTGTCTCATATTACCGTG 968
Qy 969 TGTATGGATGATGATCTTGCGCTCAAGAGTGTGCTGCTGCTGGTGGTGTGCTGTTTCATC 1028
Db 969 TGTATGGATGATGATCTTGCGCTCAAGAGTGTGCTGCTGCTGGTGGTGTGCTGTTTCATC 1028
Qy 1029 AAGGACAGGAATCTTCGAAGGATCACAGAGTGTGCTGCTGCTGGTGGTGTGCTGTTTCATC 1088
Db 1029 AAGGACAGGAATCTTCGAAGGATCACAGAGTGTGCTGCTGCTGGTGGTGTGCTGTTTCATC 1088
Qy 1089 GTCTGTGAGTCCCATTCACATTTTACGTATCAATTAAGCCCTTGGTTACATTCACAGAA 1148
Db 1089 GTCTGTGAGTCCCATTCACATTTTACGTATCAATTAAGCCCTTGGTTACATTCACAGAA 1148
Qy 1149 ACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGTGTACACAAACAGCTGC 1208
Db 1149 ACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGTGTACACAAACAGCTGC 1208
Qy 1209 CTCACCCAGTCTTATGATTTCTGGAATTAAGTCTCAAAAGTGTCTCAGAGAGTTC 1268
Db 1209 CTCACCCAGTCTTATGATTTCTGGAATTAAGTCTCAAAAGTGTCTCAGAGAGTTC 1268
Qy 1269 TGTATCCCACTCTTCCAACTTTGAGCAACAAACTCCACATCGAATTCGTGAGAACAT 1328
Db 1269 TGTATCCCACTCTTCCAACTTTGAGCAACAAACTCCACATCGAATTCGTGAGAACAT 1328
Qy 1329 AGAGACCCCTTCCAGCCCAATACAGTGGATAGAACTTAATCATCAGCTAGAAAATCTG 1388
Db 1329 AGAGACCCCTTCCAGCCCAATACAGTGGATAGAACTTAATCATCAGCTAGAAAATCTG 1388
Qy 1389 GAAGCAGAACTGCTCGTGGCTTAAAGGCTCATGCTTCCGCTTCCAGCTTCCACAGC 1448
Db 1389 GAAGCAGAACTGCTCGTGGCTTAAAGGCTCATGCTTCCGCTTCCAGCTTCCACAGC 1448
Qy 1449 TTAGAAGCCACCATGTATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGAGGCTCTTAAT 1508
Db 1449 TTAGAAGCCACCATGTATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGAGGCTCTTAAT 1508

Qy 1509 CTCTAGGAAAGTGCTTACTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1568
Db 1509 CTCTAGGAAAGTGCTTACTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1568
Qy 1569 TGCACTATTAGAGGGGACAGCCAAAAGTAAGTGGAGCATTTGGAGGAAAGGAATATACCA 1628
Db 1569 TGCACTATTAGAGGGGACAGCCAAAAGTAAGTGGAGCATTTGGAGGAAAGGAATATACCA 1628
Qy 1629 ACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTGGTATGTA 1688
Db 1629 ACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTGGTATGTA 1688
Qy 1689 ATTGAAGTTCATCAATAAAGGTGACCTCTCTGTCTGTAAAGATTTTATTTTCAAGCAATAT 1748
Db 1689 ATTGAAGTTCATCAATAAAGGTGACCTCTCTGTCTGTAAAGATTTTATTTTCAAGCAATAT 1748
Qy 1749 TTATGACCTCAACAAAGAGAACCATTTTCTTAAAGTTTCAAGTATGATCAATAAAGT 1808
Db 1749 TTATGACCTCAACAAAGAGAACCATTTTCTTAAAGTTTCAAGTATGATCAATAAAGT 1808
Qy 1809 AAATGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCGGAGTCTTTTAGTGTGTTTG 1868
Db 1809 AAATGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCGGAGTCTTTTAGTGTGTTTG 1868
Qy 1869 CAAGGGAATGAATCCATTTATTTTAGACCTTTTAACTTCAACTTAAATAATAGCATCT 1928
Db 1869 CAAGGGAATGAATCCATTTATTTTAGACCTTTTAACTTCAACTTAAATAATAGCATCT 1928
Qy 1929 GGTCAAGGATCATTTTCACTCCATTTCTTGGTTTGTGTTTATTTTAAAAAATAAAT 1988
Db 1929 GGTCAAGGATCATTTTCACTCCATTTCTTGGTTTGTGTTTATTTTAAAAAATAAAT 1988
Qy 1989 CTCTTTTCATCTAGTCCATTAATTCAGGGAAGATTTAGCATGAAAGTAAATCTGAAAC 2048
Db 1989 CTCTTTTCATCTAGTCCATTAATTCAGGGAAGATTTAGCATGAAAGTAAATCTGAAAC 2048
Qy 2049 ACAGTCATGTGTCACTGTAGAAAGTGTGATTTCTCATGCACATNCAATAATCTTCAAGAG 2108
Db 2049 ACAGTCATGTGTCACTGTAGAAAGTGTGATTTCTCATGCACATNCAATAATCTTCAAGAG 2108
Qy 2109 TCATCATGGGGAATTTTTCATTTTAGGCTTTTCAAGTGTGTTTCTGGAATTC 2162
Db 2109 TCATCATGGGGAATTTTTCATTTTAGGCTTTTCAAGTGTGTTTCTGGAATTC 2162

RESULT 5

US-08-188-275A-1
; Sequence 1, Application US/08188275A
; Patent No. 6258556

; GENERAL INFORMATION:
; APPLICANT: Uhl, George R.

; APPLICANT: Wang, Jia-Bei

; APPLICANT: Johnson, Peter S.

; APPLICANT: Persico, Antonio

; TITLE OF INVENTION: cDNA and Genomic Clones Encoding Human

; TITLE OF INVENTION: Mu Opiate Receptor and the Purified Gene Product

; NUMBER OF SEQUENCES: 12

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Birch, Stewart, Kolasch & Birch

; STREET: P.O. Box 747

; CITY: Falls Church

; STATE: Virginia

; COUNTRY: USA

; ZIP: 22040-3487

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/188,275A

; FILING DATE: 28-JAN-1994

```
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1173-449P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2160 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..2160
; OTHER INFORMATION: /label= cDNA
; OTHER INFORMATION: /note= "cDNA encoding human mu opiate receptor"
; US-08-188-275A-1

Query Match      98.8%; Score 2136.4; DB 3; Length 2160;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2159; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

Qy 1 GGAATTCGGCTATAGGACAGAGGAGATGTGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA 60
Db 1 GGAATTCGGCTATAGGACAGAGGAGATGTGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA 60

Qy 61 CGCTCCTCTGCTCAGCCAGGACTGGTTTCTGTAGAAACACAGAGAGCTGGGAGC 120
Db 61 CGCTCCTCTGCTCAGCCAGGACTGGTTTCTGTAGAAACACAGAGAGCTGGGAGC 120

Qy 121 GGCGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTGGCTACCT 180
Db 121 GGCGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTGGCTACCT 180

Qy 181 CGCAGCGGTCGCCGCCGCCGCGTCACTAGTACGAGAGAGAGTCCGAGCCGAGCCGCGT 240
Db 181 CGCAGCGGTCGCCGCCGCCGCGTCACTAGTACGAGAGAGAGTCCGAGCCGAGCCGCGT 240

Qy 241 CCAGCAATGCACTGATGCTTGGGCTTCAAGTTGCTCCCGAGCCAGCCAGCCGCGT 300
Db 241 CCAGCAATGCACTGATGCTTGGGCTTCAAGTTGCTCCCGAGCCAGCCAGCCGCGT 300

Qy 301 CCTGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACCGCA 360
Db 301 CCTGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACCGCA 360

Qy 361 CCAATCTGGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAATCTGGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG 420

Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTC 480
Db 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTC 480

Qy 481 TGGTCACTGATGTGATGTGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCACTGATGTGATGTGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540

Qy 541 TCAACCTTGTCTGSCAGATGCTTTCAGCAACAGTACCCCTGCTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTGSCAGATGCTTTCAGCAACAGTACCCCTGCTCCAGAGTGTGAAT 600

Qy 601 ACCTAATGGGAACATGGGCAATTTGGAACCATCTTTGCAAGATGATGATCTCCATAGAT 660
Db 601 ACCTAATGGGAACATGGGCAATTTGGAACCATCTTTGCAAGATGATGATCTCCATAGAT 660

Qy 661 ACTATAACATGTTACACGAGCATATTCACCTCTGCAACCATGAGTGTTCATCGATACATTG 720
Db 661 ACTATAACATGTTACACGAGCATATTCACCTCTGCAACCATGAGTGTTCATCGATACATTG 720
```

```
Db 661 ACTATAACATGTTACACGAGCATATTCACCTCTGCAACCATGAGTGTTCATCGATACATTG 720
Qy 721 CAGTCTGCCACCCCTGTCAAGGCTTAGATATTCCTGCTACTCCCGAAATGCCAAATATATCA 780
Db 721 CAGTCTGCCACCCCTGTCAAGGCTTAGATATTCCTGCTACTCCCGAAATGCCAAATATATCA 780
Qy 781 ATCTCTGCAACCTGGATCTCTCTTCAGCCATTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
Db 781 ATCTCTGCAACCTGGATCTCTCTTCAGCCATTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
Qy 841 CAAATACAGGCAAGGTTCCATAGATTGTACACTAAACATCTCTCATCCAACTGGTACT 900
Db 841 CAAATACAGGCAAGGTTCCATAGATTGTACACTAAACATCTCTCATCCAACTGGTACT 900
Qy 901 GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGTCAGTGTCTATCA 960
Db 901 GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGTCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGGAATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGGAATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Qy 1021 CAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGGTGGTGGCTG 1080
Db 1021 CAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTTAAAGCCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTTAAAGCCCTTGGTTACAA 1140
Qy 1141 TCCAGAAAACCTAGTTCAGACTGTTTTCGGAATGCTGTCGATGCTCTAGTGTACACAA 1200
Db 1141 TCCAGAAAACCTAGTTCAGACTGTTTTCGGAATGCTGTCGATGCTCTAGTGTACACAA 1200
Qy 1201 ACAGTCTCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTCA 1260
Db 1201 ACAGTCTCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTCA 1260
Qy 1261 GAGAGTCTCTATCCCAACCTCTTCCAACTTGGAGCAACAAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTCTCTATCCCAACCTCTTCCAACTTGGAGCAACAAACTCCACTCGAATTCGTC 1320
Qy 1321 AGAACACTAGAGACCAACCTTCCACGCGCAATACAGTGGATGAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACCAACCTTCCACGCGCAATACAGTGGATGAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGGCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGGCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTAGGAGG 1500
Qy 1501 CTCTAAATCTCTAGGAAAGTGCCTTATCTTTTAGGTTCATCCAACTCTTCTCTCTGGCCA 1560
Db 1501 CTCTAAATCTCTAGGAAAGTGCCTTATCTTTTAGGTTCATCCAACTCTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGAGGAAGGAA 1620
Db 1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGAGGAAGGAA 1620
Qy 1621 TATACCAACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Db 1621 TATACCAACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Qy 1681 GTATGTGAATTTGAAGTCAATCAAAAAGGTGACCTTCTGTCTGTAAAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTCAATCAAAAAGGTGACCTTCTGTCTGTAAAGATTTTATTTCAA 1740
Qy 1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCACCGTAGTACA 1800
Db 1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCACCGTAGTACA 1800
```

1801 CATAAAGTAAATCTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTTAG 1860
1801 CATAAAGTAAATCTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTTAG 1860
1861 TGTTTTGCAAGGGAATGAATCCATTATTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1861 TGTTTTGCAAGGGAATGAATCCATTATTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGATCATTTTCACTCCATTTCTTGTTTGTATTTGTTTAAAAA 1980
1921 TAGCATCTGGCTAAGGATCATTTTCACTCCATTTCTTGTTTGTATTTGTTTAAAAA 1980
1981 AATAACATCTCTTTTCTAGCTCCATTAATTGCAAGGGAAGATTAGCATGAAGGTAA 2040
1981 AATAACATCTCTTTTCTAGCTCCATTAATTGCAAGGGAAGATTAGCATGAAGGTAA 2040
2041 TCTGAACACAGTCATGTGTCTCANCTGTAGAAAGTTGATTTCTCATGCACCTNCAATACCT 2100
2041 TCTGAACACAGTCATGTGTCTCA-CTGTAGAAAGTTGATTTCTCATGCACCT-CAATACCT 2098
2101 CAAAAGATCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTCTCTGGAAT 2160
2099 CCAAAGATCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTCTCTGGAAT 2158
2161 TC 2162
2159 TC 2160

RESULT 6

US-08-889-108-7
; Sequence 7, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM: disk
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-889-108-7

Query Match 71.8%; Score 1551.4; DB 3; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
QY 9 GGCTATAGCAGAGGAGAAATGTCAGATGCTCAGTCCGCTCCCTCGCTCAGCTCCTC 68
DB 36 GGCTATATCGCAGAGGAGAAATGTCAGATGCTCAGTCCGCTCCCTCGCTCAGCTCCTC 95
QY 69 TCTGTCTCAGCCAGGACCTGGTTTCTGTAGAAACAGCAGAGCTGTGGCAGCGGCGAAAG 128
DB 96 TCTGTCTCAGCCAGGACCTGGTTTCTGTAGAAACAGCAGAGCTGTGGCAGCGGCGAAAG 155
QY 129 GAAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTCGCTACCTCGCACAG 188
DB 156 GAAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTCGCTACCTCGCACAG 215
QY 189 GGTGCCCGCCGCGCTCAGTACCATGAGACAGAGGCTGCCCCCAGAACCGCAGCAAT 248
DB 216 -GTGCCCGCCGCGCTCAGTACCATGAGACAGAGGCTGCCCCCAGAACCGCAGCAAT 274
QY 249 TGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGACACCCAGACCCCGGTTCTCGGTC 308
DB 275 TGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGACACCCAGACCCCGGTTCTCGGTC 334
QY 309 AACTTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCAGCAATCTG 368
DB 335 AACTTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCAGCAATCTG 394
QY 369 GCGCGGAGAGACAGCGCTGTGCGCTCCGACCGGAGTCCCTCCATGATCAAGGCGATCAG 428
DB 395 GCGCGGAGAGACAGCGCTGTGCGCTCCGACCGGAGTCCCTCCATGATCAAGGCGATCAG 454
QY 429 ATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGAAACCTTCTCGGTGCTG 488
DB 455 ATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGAAACCTTCTCGGTGCTG 514
QY 489 TATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTT 548
DB 515 TATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTT 574
QY 549 GCTCTGGCAGATGCTTACGACACAGTACCTTCCGCTTCCAGAGTGTGAATTAACCTAATG 608
DB 575 GCTCTGGCAGATGCTTACGACACAGTACCTTCCGCTTCCAGAGTGTGAATTAACCTAATG 634
QY 609 GGAACATGSCCATTTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAAC 668
DB 635 GGAACATGSCCATTTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAAC 694
QY 669 ATGTTTACCAGCATATTACACCTCTGACCATGAGTGTGATCGATACATTCAGTCTGC 728
DB 695 ATGTTTACCAGCATATTACACCTCTGACCATGAGTGTGATCGATACATTCAGTCTGC 754
QY 729 CACCTGTCAAGGCTTAGATTTCCGCTACCTCCCGAAATGCCAAATTTATCAATGTCTGC 788
DB 755 CACCTGTCAAGGCTTAGATTTCCGCTACCTCCCGAAATGCCAAATTTATCAATGTCTGC 814
QY 789 AACTGGATCCTCTCTTCAGCCATTTGCTCTGTAATGTTTATGCTGCTACCAACAAATATC 848
DB 815 AACTGGATCCTCTCTTCAGCCATTTGCTCTGTAATGTTTATGCTGCTACCAACAAATATC 874
QY 849 AGGCAAGGTTCCATAGATTGTACACTAACTCTCTCATCCAACTGGTACTGGGAAAC 908
DB 875 AGGCAAGGTTCCATAGATTGTACACTAACTCTCTCATCCAACTGGTACTGGGAAAC 934
QY 909 CTCGTGAAGATCTGTGTTTTCATCTTCCGCTTTCATTTGCCAGTGTCTCATATTACCGTG 968
DB 935 CTCGTGAAGATCTGTGTTTTCATCTTCCGCTTTCATTTGCCAGTGTCTCATATTACCGTG 994
QY 969 TCGTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTCGCTCCAAAGAA 1028
DB 995 TCGTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTCGCTCCAAAGAA 1054
QY 1029 AAGGACAGGAATCTTTCGAAGGATCACAGGATGGTGTGTTGTTTCATC 1088

Db 1055 AAGCAGGAACTCTCGAAGGATCACCAGGATGCTGCTGGTGGTGGTGTGTTCTATC 1114
Qy 1089 GTCTGCTGGACTCCCATTCATCATTTAGTCATCATTTAAAGCTTGGTTCAATCCAGAA 1148
Db 1115 GTCTGCTGGACTCCCATTCATCATTTAGTCATCATTTAAAGCTTGGTTCAATCCAGAA 1174
Qy 1149 ACTACGTTCCAGACTGTTCTTGGCACTTCTGCACTCTGCACTCTAGGTTACACAAACAGCTGC 1208
Db 1175 ACTACGTTCCAGACTGTTCTTGGCACTTCTGCACTCTGCACTCTAGGTTACACAAACAGCTGC 1234
Qy 1209 CTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTTCAACGATGCTTTCAGAGAGTTC 1268
Db 1235 CTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTTCAACGATGCTTTCAGAGAGTTC 1294
Qy 1269 TGTATCCCAACTCTTCCAACTTTGAGCAATTTGAGCAATTTGAGCAATTTGAGCAATTTGAGCAACT 1328
Db 1295 TGTATCCCAACTCTTCCAACTTTGAGCAATTTGAGCAATTTGAGCAATTTGAGCAACT 1354
Qy 1329 AGAGCACCCTCCAGGCAATACAGTGGATAGAACTAATCATCATGCTAGTAGAAATCTG 1388
Db 1355 AGAGCACCCTCCAGGCAATACAGTGGATAGAACTAATCATCATGCTAGTAGAAATCTG 1414
Qy 1389 GAAGCAGAACTGCTCCGTTTCCCTTAACAGGCTCTCATGCTTCCGACCTTCCACCAAGC 1448
Db 1415 GAAGCAGAACTGCTCCGTTTCCCTTAACAGGCTCTCATGCTTCCGACCTTCCACCAAGC 1474
Qy 1449 TTAGAAGCCACATGTATGTGGAGAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAAT 1508
Db 1475 TTAGAAGCCACATGTATGTGGAGAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAAT 1534
Qy 1509 CTCTAGGAAAGTCTACTTTTAGGTGATCAACCTCTTCTCTCTGCGGCACTCTGCTC 1568
Db 1535 CTCTAGGAAAGTCTACTTTTAGGTGATCAACCTCTTCTCTCTCTGCGGCACTCTGCTC 1594
Qy 1569 TGCACATTTAGAGG 1581
Db 1595 TGCACATTTAGAGG 1607

RESULT 7
PCT-US94-10358-7
; Sequence 7, Application PC/TUS9410358
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: MU OPIOID RECEPTORS: COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/10358
; FILING DATE: Concurrently herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/120.601
; FILING DATE: 13 SEPTEMBER 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: WILSON, MARK B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005P--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679

; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; PCT-US94-10358-7

Query Match 71.8%; Score 1551.4; DB 6; Length 1610;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

Qy 9 GGCATATAGGCAGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCCTCCGCTGACGCTCCTC 68
Db 36 GGCATATAGGCAGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCCTCCGCTGACGCTCCTC 95
Qy 69 TCTGTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 128
Db 96 TCTGTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 155
Qy 129 GAAGCGGCTCAGCGGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACCTCGCACAGC 188
Db 156 GAAGCGGCTCAGCGGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACCTCGCACAGC 215
Qy 189 GGTGCCCGCCGCGCTGCTAGTACATGACAGCAGCGCTGCCCCCAGAAACGCGCAGCAAT 248
Db 216 -GTGCCCGCCGCGCTGCTAGTACATGACAGCAGCGCTGCCCCCAGAAACGCGCAGCAAT 274
Qy 249 TGCACATGATCCTTGGCGTACTCAAGTTGCTTCCCGACGACCCAGCCCGGTTCTTGGGTC 308
Db 275 TGCACATGATCCTTGGCGTACTCAAGTTGCTTCCCGACGACCCAGCCCGGTTCTTGGGTC 334
Qy 309 AACTTGTCCCACTTAGATGCAACCTGTCGACCCATGCGGTCCGAAACCGCAACCAATCTG 368
Db 335 AACTTGTCCCACTTAGATGCAACCTGTCGACCCATGCGGTCCGAAACCGCAACCAATCTG 394
Qy 369 GCGGGAGAGACAGCCTGTCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAG 428
Db 395 GCGGGAGAGACAGCCTGTCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAG 454
Qy 429 ATCATGGCCCTCTACTCCTCATCTGCTGGTGGGCTCTTTCGGAACCTTCTTGGTCTATG 488
Db 455 ATCATGGCCCTCTACTCCTCATCTGCTGGTGGGCTCTTTCGGAACCTTCTTGGTCTATG 514
Qy 489 TATGTGATTTGTCAGATACACCAAGATCAAGCTGCCACCACTCTACATTTTCAACCTT 548
Db 515 TATGTGATTTGTCAGATACACCAAGATCAAGCTGCCACCACTCTACATTTTCAACCTT 574
Qy 549 GCTCTGGCAGATGCTTTAGCCACCCAGTACCTCGCTTCCAGAGTGTGAATTTACCTAATG 608
Db 575 GCTCTGGCAGATGCTTTAGCCACCCAGTACCTCGCTTCCAGAGTGTGAATTTACCTAATG 634
Qy 609 GGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCCATAGATTTATATATAC 668
Db 635 GGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCCATAGATTTATATATAC 694
Qy 669 ATGTTTACCAGCATATTTACCCCTCTGACCAATGATGTTTGTATGATGATGATGATGATG 728
Db 695 ATGTTTACCAGCATATTTACCCCTCTGACCAATGATGTTTGTATGATGATGATGATGATG 754
Qy 729 CACCTCTCAAGGCTTTAGATTTTCCGTACTTCCCGAAATGCCAAATTTATCAATGTCTGCG 788
Db 755 CACCTCTCAAGGCTTTAGATTTTCCGTACTTCCCGAAATGCCAAATTTATCAATGTCTGCG 814
Qy 789 AACTGGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTTACCAAAAATAC 848
Db 815 AACTGGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTTACCAAAAATAC 874
Qy 849 AGGCAAGGTTCCATAGATTTGATCACTAATCTCTCATCAACCTGCTGCTGCTGCTGCTGCT 908
Db 875 AGGCAAGGTTCCATAGATTTGATCACTAATCTCTCATCAACCTGCTGCTGCTGCTGCTGCT 934

Qy 1233 CTGATGAAACTTCAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAACTT 1292
Db 1021 CTGATGAAACTTCAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAACTT 1080
Qy 1293 GAGCAACAAACTCCACTCGAATTCGTGAGAACCTAGAGACCAACCCCTCCAGGCGCAAT 1352
Db 1081 GAGCAACAAACTCCACTCGAATTCGTGAGAACCTAGAGACCAACCCCTCCAGGCGCAAT 1140
Qy 1353 ACAGTGATAGAACTAATCATCAGCTAGAAATCTGGAGCAGAACTGCTCGGTTGCC 1412
Db 1141 ACAGTGATAGAACTAATCATCAGCTAGAAATCTGGAGCAGAACTGCTCGGTTGCC 1200
Qy 1413 TAA 1415
Db 1201 TAA 1203

RESULT 9
US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; TITLE OF INVENTION: OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA: PCT/FR97/01282
; FILING DATE:
; APPLICATION NUMBER: FR 96.08810
; FILING DATE:
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
; US-09-214-904-1

Query Match 54.5%; Score 1179; DB 3; Length 2229;
Best Local Similarity 77.9%; Pred. No. 2.6e-301;
Matches 1543; Conservative 0; Mismatches 410; Indels 28; Gaps 9;
Qy 9 GGCTATAGGACAGAGAGAAATGTGATGCTCAGTCGCTCGCTCCCTCCGCTCAGCTCCTC 68
Db 52 GGATACAGACAGAGAGAAATATCGGACGCTCAG-ACGTTCCATTTCTGCTCCGCTCTTC 110
Qy 69 TCTGTCTCAGCCAGGAGCTGTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
Db 111 TCTGTTCCACTAGGGCTTGCTTCTGTAAGAAACCTGACGAGCCCTAGGGCAGCTGTGGA 170
Qy 128 GGAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTCGCTACCTCGCACAG 187
Db 171 GGAAGAGCTGGGGCGCTGGAAACCCGAAACACTCTTGAGTGTCTCTCAGTTACGCTACC 230
Qy 188 CGGTGCCCGCCGCGCTGTCAGTACCATGGAACAGCAGCGCTGCCCCCAAGCGCGAGAA 247
Db 231 GAGTCCGACGCAAGCATTCAGAAACCATGGAACAGCAGCGCGCCCCGAGGGAACATCAGCGA 290
Qy 248 TTGCACTGATGCTTGGGCTACTCAAGTTGCTCCCGACGACCCCGGCTTCTGGGT 307

Db 291 CTGCTCGACCCCTTAGCTCTCTCAAGTTGGTCCCCAGCA-----CTGGCTCTGGCT 344
Qy 308 CAACCTTGTCCACTTAGATGGCAACCTGTCCGAGCCCATGCGGTCCGAAACCGCACCAATCT 367
Db 345 CAACCTTGTCCAGTGTGATGGCAACCTGTCCGAGCCCATGCGGTCCGAAACCGCACGGGCT 404
Qy 368 GGGCGGAGAGACAGAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGGCAGTAC 427
Db 405 TGGCGGAGAGACAGAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGGCAGTAC 464
Qy 428 GATCATGGCCCTCTACTCCATCGTGTGGGCTCTTGGAAACCTTCTGGTGGTCTAT 487
Db 465 CATCATGGCCCTCTATTTCTATCGTGTGTGAGTGGGCTCTTTGGAAACCTTCTGGTGGT 524
Qy 488 GTATGTGATGTGATGATACCAAGATGAAAGACTGCCACCAACATCTTACATTTTCAACCT 547
Db 525 GTATGTGATGTGATGATATACCAAGATGAAAGACTGCCACCAACATCTTACATTTTCAACCT 584
Qy 548 TGCTCTGGCAGATGCTTACGCCACAGTACCCCTGCCCTTCCAGAGTGTGAATTAACCTAAT 607
Db 585 TGCTCTGGCAGATGCTTACGCCACAGTACCCCTGCCCTTCCAGAGTGTGAATTAACCTAAT 644
Qy 608 GGGAAACATGGCCATTTGGAAACCTCTTTCGAAGATAGTATCTCCATAGATTAATAA 667
Db 645 GGGAAACATGGCCCTTTGGAAACATCTCTCGAAGATCGTGTCTCAATAGATTAATAA 704
Qy 668 CATGTTCCAGCAGATATTACCCCTCTGCACCATGAGTGTGATCGATACATTTGCAAGTCTG 727
Db 705 CATGTTCCAGCAGATATTACCCCTCTGCACCATGAGTGTGATCGATACATTTGCAAGTCTG 764
Qy 728 CCACCTCTGCAAGGCTTGTAGATTTCCGTACTCCCCGAAATGCCAAATTAATCAATGTCTG 787
Db 765 CCACCTCTGCAAGGCTTGTAGATTTCCGTACTCCCCGAAATGCCAAATTAATCAATGTCTG 824
Qy 788 CAACCTGATCTCTTTCAGCAGATGCTTCTGTAATGTTTCAATGCTTACCAAAATA 847
Db 825 CAACCTGATCTCTTTCAGCAGATGCTTCTGTAATGTTTCAATGCTTACCAAAATA 884
Qy 848 CAGCAGAGGTTCCATAGATTTGATCACTAACTCTCTCATCAACCTGGTACTGGGAAA 907
Db 885 CAGCAGGAGGTTCCATAGATTTGATCACTAACTCTCTCATCAACCTGGTACTGGGAAA 944
Qy 908 CCTCTGCAAGATCTGTGTTTTTCATTTTCGCTTCAATGATGCAAGTGTCTATTTACCGT 967
Db 945 CCTGCTCAAAATCTGTCTTCTCATTTTCGCTTCAATGATGCAAGTGTCTATTTACCTGT 1004
Qy 968 GTGCTATGGAATGATGATTTGGCCCTCAAGAGTGTGGCAGTGTCTCTGCTCCAAAGA 1027
Db 1005 GTGTTATGGACTGATGATCTTACGACTCAAGAGTGTCCGATGCTGTGGGCTCCAAAGA 1064
Qy 1028 AAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGCTGGTGGTGGTGTGTTTCAAT 1087
Db 1065 AAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGCTGGTGGTGGTGTGTTTAT 1124
Qy 1088 CGTCTGTGGAATCTCCCATTTACATTTACGTCATCAATTAAGGCTTGGTTACAAATCCCA 1147
Db 1125 TGCTGTGAGCCCATCCCATCCATCTATGTCATCATCAAGCACTGATCAGATTCCAGA 1184
Qy 1148 AACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTTAGGTTACAAACAGCTG 1207
Db 1185 AACCACTTTCAGACTGTTTCTTGGCACTTCTGCAATGCTTAGGTTACAAACAGCTG 1244
Qy 1208 CCTCAACCCAGTCTTTTATGATTTCTGGATGAAACTTCAAAAGTGTCTTTCAGAGATT 1267
Db 1245 CCTGAACCCAGTCTTTTATGCGTTTCTGGATGAAACTTCAAAAGTGTCTTTCAGAGATT 1304
Qy 1268 CTGATATCCCAACCTTTCGAACATTTAGAGCAAAACTCCACTCGAATTCGTCAGAACAC 1327
Db 1305 CTGATATCCCAACCTTTCGAACATTTAGAGCAAAACTCTGCTCGAATTCGTCAGAACAC 1364
Qy 1328 TAGAGACCAACCCCTTCCAGCGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387

Db 1365 TAGGGAAACCCCTCCACGGCTAAATACAGTGGATCGAATAACCCAGCACTAGAAAATCT 1424
QY 1388 GGAAGCAGAACTGCTCCGCTGCTCCCTAAACAGAGGTCTCATGCGCATTCGCGACTTCACCAAG 1447
Db 1425 GGAAGCAGAACTGCTCCATTTGCTTAACTGGGTCCACGCCATCCAGACCTTCGGTAAA 1484
QY 1448 CTTAGAAGCCACCATGTATGTGGAAGCAGGTTCCTTCAAGAATGTGTAGGAGCTCTAAT 1507
Db 1485 CTTAGAGGCTGCCATCTACTTGAATCAGTTGCTGTCTCAGGTTTGTGGGAGGCTCTGT 1544
QY 1508 TCTTAGGAAGTGCTCTATTTTAGGTCAATCCAACTCTTCTCTCTGCGCACTCTGT 1567
Db 1545 TTCTTGGAAAGCATCTGATCTCTGATCATTTCAAAGTCAATCTCTCTCTGCTATTCA-CG 1603
QY 1568 CTGCATTTAGAGGACACCCAAAGTAAGTGGAGCATTTGGAGCAATTTGGAGGAAGGAATATACCA 1627
Db 1604 CTACACGTGAGAGACTC---AGACTGTGTCAAGCACTCAGAAGGAAGAGACTGCAGGC 1660
QY 1628 CACCGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGGTATG 1685
Db 1661 CACTACTGAATCCAGTCTCATGTACAGAAACATCCATGGACCAATACTCTGTGSTATG 1720
QY 1686 TGAATTTGAAGTCATATAAAGGTGACCTTCTGTCTGT-AGAATTTTATTTTCAAAGCAA 1744
Db 1721 TGATTTGTGATCAACATAGAAGGTGACCTTCCCTATGTGGAATTTTAAATTTTCAAAGGAA 1780
QY 1745 ATATTTATGACCTCAACAAGAGRACCA---TCTTTTGTAAAGTTTCAACGCTAGTAACA 1800
Db 1781 ATACTTATGATCTCATCAAGGGGAAAATAGATGTCACTTGTGTAATTTCACTGTAGTGATG 1840
QY 1801 CATAAAGTAAATCTACTCTGTATCAAGCACCTTGAATGGAAGGTCCGAGTCTTTTATAG 1860
Db 1841 CATAAAGGAAAGACTACTCTGACCTTAGCCAGTCAACCTCTATGGAAGGTTCATAG 1900
QY 1861 TGTTTTTGAAGGGAATGAATCAATTAATTTTATTTAGACTTTTAACTTTCAACTTAAAT 1920
Db 1901 GGAATATGTGAGGAA-----AATGTTGCTTCCAAATTAATTTTCACTTTATGT 1951
QY 1921 TAGCATCTGGCTAAGGATCAATTTTCACTTCAATTTTCTGGTTTGTATTTGTTTAAAAA 1980
Db 1952 TATAGTCTAGTTAAGACATCAGGGGCATCTCTGTTTCTTGGTTTGTATTTGTTTGAAGA 2011
QY 1981 A 1981
Db 2012 A 2012

RESULT 10
; Sequence 546, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 546
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-546

Query Match 53.8%; Score 1163.6; DB 3; Length 1182;

Best Local Similarity 99.7%; Pred. No. 2.3e-297;
Matches 1166; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 213 ATGGACAGCAGCGCTGCCCCACGAAACGCGACAAATTCACATGATGCTTGGCGTACTCA 272
Db 1 ATGGACAGCAGCGCTGCCCCACGAAACGCGACAAATTCACATGATGCTTGGCGTACTCA 60
QY 273 AGTTGCTTCCCAAGCAGCCAGCCCGGTTCTCGGTTCAACTTGTCCACTTAGATGCAAC 332
Db 61 AGTTGCTTCCCAAGCAGCCAGCCCGGTTCTCGGTTCAACTTGTCCACTTAGATGCAAC 120
QY 333 CTGTCCGACCCATGCGGTCCGAAACCGCACCAATCTTGGCGGAGAGACAGCCCTGTGCCCT 392
Db 121 CTGTCCGACCCATGCGGTCCGAAACCGCACCAACTTGGCGGAGAGACAGCCCTGTGCCCT 180
QY 393 CGGACCGGAGTCCCTCCATGATCAGGCCATCAGATCATGCGCCCTCTACTCCATCGTG 452
Db 181 CGGACCGGAGTCCCTCCATGATCAGGCCATCAGATCATGCGCCCTCTACTCCATCGTG 240
QY 453 TCGGTGGTGGGCTCTTTCGAAACCTTCTGGTCAATGATGATGATGATGATGATGATGATGAT 512
Db 241 TCGGTGGTGGGCTCTTTCGAAACCTTCTGGTCAATGATGATGATGATGATGATGATGATGAT 300
QY 513 ATGAAGACTGCGCACCAACATCTACATTTTCAACCTTGTCTCTGCGAGATGCTTAGCCACC 572
Db 301 ATGAAGACTGCGCACCAACATCTACATTTTCAACCTTGTCTCTGCGAGATGCTTAGCCACC 360
QY 573 AGTACCTTCCCTTCCAGAGTGTGAATTAACCTTAATGGGAACATGGCCATTTGGAAACATC 632
Db 361 AGTACCTTCCCTTCCAGAGTGTGAATTAACCTTAATGGGAACATGGCCATTTGGAAACATC 420
QY 633 CTTTGAAGATAGTGTATCTCCATAGATTAATAATTAATAATTAATAATTAATAATTAATAAT 692
Db 421 CTTTGAAGATAGTGTATCTCCATAGATTAATAATTAATAATTAATAATTAATAATTAATAAT 480
QY 693 TGCACCATGAGTGTGATCGATACATTTGCACTGTCACCTGTCAAGCGCTTAGATTTTC 752
Db 481 TGCACCATGAGTGTGATCGATACATTTGCACTGTCACCTGTCAAGCGCTTAGATTTTC 540
QY 753 CGTACTCCCGAAATGCGCAATTAATGCTCAATGCTCAATGCTCAATGCTCAATGCTCAATGCT 812
Db 541 CGTACTCCCGAAATGCGCAATTAATGCTCAATGCTCAATGCTCAATGCTCAATGCTCAATGCT 600
QY 813 GGTCTTCTGTAAATGTTTATGCTTACAAACAAATACAGCAAGGTTCCATAGATTTGTACA 872
Db 601 GGTCTTCTGTAAATGTTTATGCTTACAAACAAATACAGCAAGGTTCCATAGATTTGTACA 660
QY 873 CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCATC 932
Db 661 CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCATC 720
QY 933 TTGCGCTTCAATTTAGCAGTGTCTCATATTAACGTTGTCTATGAGTGTATGATCTTGGCG 992
Db 721 TTGCGCTTCAATTTAGCAGTGTCTCATATTAACGTTGTCTATGAGTGTATGATCTTGGCG 780
QY 993 CTCAGAGTGTCCGATGCTCTCTGGCTCAAGAAAGAGACAGGAATCTTCGAAGATC 1052
Db 781 CTCAGAGTGTCCGATGCTCTCTGGCTCAAGAAAGAGACAGGAATCTTCGAAGATC 840
QY 1053 ACCAGGATGCTGT 1112
Db 841 AACAGGATGCTGT 900
QY 1113 TAGTCATCATTTAAAGCCTTGGTTACAATCCAGAACTACGTTCCAGACTGTTCTTGG 1172
Db 901 TAGTCATCATTTAAAGCCTTGGTTACAATCCAGAACTACGTTCCAGACTGTTCTTGG 960
QY 1173 CACTTCTGATTTGCTTAGTTTACAAACAGCTGCTCAACCCAGTCTCTTTATGCAATTT 1232
Db 961 CACTTCTGATTTGCTTAGTTTACAAACAGCTGCTCAACCCAGTCTCTTTATGCAATTT 1020
QY 1233 CTGGATGAAACCTTCAACGATGCTTTCAGAGATTTCTGATTTCCCAACCTTCTTCAACATTT 1292

Db 1021 CTGGATGAAAACTTCAAAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAACTT 1080

Qy 1293 GAGCAACAAACTCCACTCGAATTCGTCAGAACACTAGAGACCACCCCTCCAGGCCAAT 1352

Db 1081 GAGCAACAAAACTCCACTCGAATTCGTCAGAACACTAGAGACCACCCCTCCAGGCCAAT 1140

Qy 1353 ACAGTGATAGAACTAATCATCATCAGCTAGAA 1382

Db 1141 ACAGTGATAGAACTAATCATCATCAGCTAGTA 1170

RESULT 11

US-08-387-707-15

; Sequence 15, Application US/08387707

; Patent No. 6265563

; GENERAL INFORMATION:

; APPLICANT: EVANS, CHRISTOPHER J.

; APPLICANT: KEITH, DUANE E.

; TITLE OF INVENTION: OPIOID RECEPTOR GENES

; NUMBER OF SEQUENCES: 18

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORRISON & FOERSTER

; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500

; CITY: Washington

; STATE: DC

; COUNTRY: USA

; ZIP: 20006-1888

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent in Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/387,707

; FILING DATE: 10-SEP-1995

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: MURASHIGE, KATE H.

; REGISTRATION NUMBER: 29,959

; REFERENCE/DOCKET NUMBER: 22000-20526.20

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 887-1500

; TELEFAX: (202) 887-0763

; INFORMATION FOR SEQ ID NO: 15:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1981 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-387-707-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;

Best Local Similarity 77.5%; Pred. No. 7.1e-293;

Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

Qy 9 GGCTATAGGACGAGAGGAGATCTCAGATGCTCAGCTCGGCTCCCTCCGCTGACGCTCTC 68

Db 52 GGATACAGACGAGAGAGAAATATCGGACGCTCAG-ACGTTCCATTTCTGCTCCGCTCTTC 110

Qy 69 TCTGTCTCAGCGCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGGAAA 127

Db 111 TCTGGTTCATAGGGCTTGTCCTGTAAAGAACTGACGGAGCCTTAGGCGAGCTGTGAGA 170

Qy 128 GGAAGCGCTGAGCGGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACTCTCGCAG 187

Db 171 GGAAGAGGCTGGGCGCGCTGGAAACCGGAAACACTCTTGAGTGTCTCTCAGTTACAGNCTACC 230

Qy 188 CGGTGCGCGCGCGGCTGAGTACCATGAGCAGGCGCTGCGCCCGCCAGGACGCGAGCA 247

Db 231 GAGTCCGCGAGGAAGCATTTCAAGAACATGGACAGAGCGCGCGCCCGGGAACATCAGCGA 290

Qy 248 TTGCACTGATCCCTTGGCGTACTCAAGTTGCTCCCGCAGCACCCAGCCCGGCTTCTGGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGCTCCCCAGCA-----CCTGGCTCTGGCT 344

Qy 308 CAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCACCAATCT 367

Db 345 CAACTTGTCCCACTTAGATGGAAACCAAGTCCGACCCATGCGGTCTTAACCGAGGCGCT 404

Qy 368 GGGCGGAGAGACAGCCTGTGCCCTCGACCCGCGAGTCCCTCCATGATCAAGGCGCATCAC 427

Db 405 TGGCGGGACGACAGCCTGTGCCCTCAGACCCGCGAGCCCTTCCATGCTCAGGCCATCAC 464

Qy 428 GATCATGGCCCTCTACTCCATCGTGGCGGTGGGGCTCTTGGAAACCTTCTGGGTCTAT 487

Db 465 CATCATGGCCCTCTATTTCTATCGTGTGTAGTGGGCTCTTTTGGAAACCTTCTGGGTCTAT 524

Qy 488 GTATGTGATTGTGATGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547

Db 525 GTATGTGATTGTGATGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584

Qy 548 TGCTCTGGCAGATGCTTTAGCCACCAAGTACCTTCCAGAGTGTGAATTAACCTAAT 607

Db 585 TGCTCTGGCAGATGCTTTAGCCACCAAGTACCTTCCAGAGTGTGAATTAACCTAAT 644

Qy 608 GGGAAACATGGCCATTTGGAAACCACTCTTTCGAAGATAGTATCTCCATAGATTAATAA 667

Db 645 GGGAAACATGGCCCTTTGGAAACCACTCTTTCGAAGATAGTATCTCCATAGATTAATAA 704

Qy 668 CATGTTTACCAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACATTTGCGAGTCTG 727

Db 705 CATGTTTACCAGCATATTTACCCCTCTGCACCATGAGTGTGAGACCGCTACATTTGCGGCTG 764

Qy 728 CCACCTCTCAAGGCGCTTAGATTTCCGTAATCTCCCGGAAATGCCAAATTTATCAATGTCTG 787

Db 765 CCACCTCTCAAGGCGCTTAGATTTCCGTAATCTCCCGGAAATGCCAAATTTATCAATGTCTG 824

Qy 788 CAACTGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATCTTCAATGCTGCTCAACAAATA 847

Db 825 CAACTGATCTCTCTTTCAGCCATTTGGTCTTCCCGGTAATGTTTATGGAACCAACAAATA 884

Qy 848 CAGCAAGGTTCCATAGATTTGATACATAACATTTCTCTCATCCAACTGGTACTGGGAAA 907

Db 885 CAGCGGGGTCCATAGATTTGCACTTCTCTCATCCACATGGTACTGGGAAA 944

Qy 908 CCTCGTGAAGATCTGTGTTTTTCATTTTCCGCTTCAATTTATGCCAGTGTCTCATTTACCGT 967

Db 945 CCTGCTCAAAATCTGTGCTTCTTTCGCTTCTCATATGCGGGCGCTCATCATCACTGT 1004

Qy 968 GTGCTATGGAATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGCTCCAAAGA 1027

Db 1005 GTGTTATGGACTGATGATCTTTACAGCTCAAGAGTGTCCGATGCTGTGGGCTCCAAAGA 1064

Qy 1028 AAAGGACAGGAATCTTCGAAGGATCACAGAGTGGTGTGGTGGTGGTGGTGGTGGTGGTGGT 1087

Db 1065 AAAGGACAGGAATCTTCGAAGGATCACAGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1124

Qy 1088 CGTCTGTGGAATCCCAATTCACATTTTACGTCACTAATTTAAAGCTTGGTTTACATCCCAAGA 1147

Db 1125 TGTCTGTGGAATCCCAATTCACATTTTACGTCACTAATTTAAAGCTTGGTTTACATCCCAAGA 1184

Qy 1148 AACTAGCTTCAGACTGTTTCTTGGGACTTCTGCAATTTCTAGTTTACACAAACAGCTG 1207

Db 1185 AACCACTTTCAGACTGTTTCTTGGGACTTCTGCAATTTCTAGTTTACACAAACAGCTG 1244

Qy 1208 CCTCAACCCAGTCTCTTTTATGCAATTTCTGGGATGAAACTTCAACGATGCTTTCAGAGATT 1267

Db 1245 CCTGAAACCCAGTCTCTTTTATGCAATTTCTGGGATGAAACTTCAACGATGCTTTCAGAGATT 1304

Qy 1268 CTGTATCTCCAACTCTTTCGAACATTTAGCAACAAACTTCCACTCGAATTCGTTCAGAACAC 1327

Db 1305 CTGCATCTCCAACTCTTTCGAACATTTAGCAACAAACTTCCACTCGAATTCGTTCAGAACAC 1364

Qy 1328 TAGAGACACCCCTTCCAGGCGAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387

Db 1365 TAGGGAAACCCCTTCCAGGCGTAAATACAGTGGATCGAACTTAACCAACGCTAGAAATCT 1424

Qy	1388	GGAAAGCAGAAAC	TGCTCCGTTGGCCCTAACAGGGTCTCATGCCATTCGACCTTCAACAAG	1447
Db	1425	GGAAAGCAGAAAC	TGCTCCATTTGCCCTTAACCTGGGTCCACGCCATCCAGACCCCTCGCTAAA	1484
Qy	1448	CTTAGAAGCCACC	ATGTATGTGGAGCAGAGTGTGCTTCAAGAAATGTGTAGAGAGGCTCTAAT	1507
Db	1485	CTTAGAGGCTGCC	ATCTACTTTGGAATCAGGTGTGTCTCAGGGTTGTGTGGAGAGGCTCTGGT	1544
Qy	1508	TCTCTAGGAAGTGC	CTTACTTTTAGGTTCATCCAACTCTTTTCCTCTCTGCGCCACTCTGCT	1567
Db	1545	TTCTCTGANAAGC	ATCTGATCCCTGCATCATTTCAAAGTCATTTCTCTCTCTGCTATTC--ACG	1603
Qy	1568	CTGCACATTTAG	AGGACAGCCAAAGTAAGTGGAGCAATTTTGGAAAGGAAGGAATATACCA	1627
Db	1604	CTACACGCTCAG	AACA---CTCAGACTGTGTCAAGCACTCAGAAAGGAAGAGACTGCAGGC	1660
Qy	1628	CACCGAGAGTCC	CAAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGGTATG	1685
Db	1661	CACCTACTGAA	TCAGCTCATGTACAGAAACATCCAAATGGACCAACAATCTCTGTGGTATG	1720
Qy	1686	TGAATTCGAAGT	CACTATAAAAGGTGACCTTCTGTCTGT--AGATTTTATTTTCAAGCAA	1744
Db	1721	TGATTTGTGAT	CAACATAGAAGGTGACCTTCCCTATGTGGAAATTTTAAATTTTCAAGGAA	1780
Qy	1745	ATATTTATGAC	CTCAACAAGAGAACCA---TCTTTTGTTAAGTTCACCGTAGTAACA	1800
Db	1781	ATACTTTATG	ATCTCATCAAGGGAAAAATAGATGTCATTTGTAAATTCATCTGTAGTGATG	1840
Qy	1801	CATAAAGTAAAT	GTACTCTCTGATCAAGACACCTTGAATGGAAGGTCGAGTCTTTTTTAG	1860
Db	1841	CATAAAGAAAAG	CTACTCTTGACCTTAGCCAGTCACCCCTCTATGGAAAGTTCCTATAG	1900
Qy	1861	TGTTTTTGC	AAGGAATGAATCCATTAATCTTATTTTAGACTTTTAACTTCAACTTAAAT	1920
Db	1901	GGAAATATGT	GAGGAA-----AATGTTGCTTCCAAATAAATTTTTCACCTTTATGT	1951
Qy	1921	TAGCATCTG	CTGAAGCATCATTTTACCT	1950
Db	1952	TATAGTCT	TAGTTAAGACATCAGGGGCATCT	1981

RESULT 12

US-08-405-271A-15
 ; Sequence 15, Application US/08405271A
 ; Patent No. 6432652
 ; GENERAL INFORMATION:
 ; APPLICANT: EVANS, CHRISTOPHER J.
 ; APPLICANT: KEITH, DUANE E.
 ; TITLE OF INVENTION: OPIOID RECEPTOR GENES
 ; NUMBER OF SEQUENCES: 25
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORRISON & FOERSTER
 ; STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500
 ; CITY: WASHINGTON
 ; STATE: DC
 ; COUNTRY: USA
 ; ZIP: 20006-1888
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/405,271A
 ; FILING DATE: 14-MAR-1995
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: MURASHIGE, KATE H.
 ; REGISTRATION NUMBER: 29,959
 ; REFERENCE/DOCKET NUMBER: 22000-20526.22
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 887-1500

Qy 908 CTTGCTGAAGATCTGTGTTTTCATCTTGCCTTCATTATGCGAGTGCTCATCTACCGT 967
Db 945 CTTGCTCAAAATCTGTGTTTCATCTTGCCTTCATCATGCGCGGCTCATCATCTGT 1004
Qy 968 GTGCTATGGAATCTTTCGAGGATCAAGAGATGTCGCGATGCTCTCTGGCTCAAAGA 1027
Db 1005 GTGTTATGGAATCTTTCGAGGATCAAGAGATGTCGCGATGCTCTGGCTCAAAGA 1064
Qy 1028 AAAGGACAGGAATCTTTCGAGGATCAAGAGATGTCGCGATGCTCTGGCTCAAAGA 1087
Db 1065 AAAGGACAGGAATCTTTCGAGGATCAAGAGATGTCGCGATGCTCTGGCTCAAAGA 1124
Qy 1088 CGTCTGCTGGAATCTTTCGAGGATCAAGAGATGTCGCGATGCTCTGGCTCAAAGA 1147
Db 1125 TGCTGCTGGAATCTTTCGAGGATCAAGAGATGTCGCGATGCTCTGGCTCAAAGA 1184
Qy 1148 AACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGTTTACACAAAGCTG 1207
Db 1185 AACCACTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGTTTACACAAAGCTG 1244
Qy 1208 CTTCAACCCAGTCTTTCGAGGATCAAGAGATGTCGCGATGCTCTGGCTCAAAGA 1267
Db 1245 CTTCAACCCAGTCTTTCGAGGATCAAGAGATGTCGCGATGCTCTGGCTCAAAGA 1304
Qy 1268 CTGATCTCCAGCTTCTTCCAGATGTCGAGATGTCGAGATGTCGAGATGTCGAGAT 1327
Db 1305 CTGATCTCCAGCTTCTTCCAGATGTCGAGATGTCGAGATGTCGAGATGTCGAGAT 1364
Qy 1328 TAGAGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387
Db 1365 TAGGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1424
Qy 1388 GGAAGCAGAACTCTGCTGCTTCCAGATGTCGAGATGTCGAGATGTCGAGATGTCGAGAT 1447
Db 1425 GGAAGCAGAACTCTGCTGCTTCCAGATGTCGAGATGTCGAGATGTCGAGATGTCGAGAT 1484
Qy 1448 CTTAGAGCCACCATGATGTCGAGATGTCGAGATGTCGAGATGTCGAGATGTCGAGAT 1507
Db 1485 CTTAGAGCCACCATGATGTCGAGATGTCGAGATGTCGAGATGTCGAGATGTCGAGAT 1544
Qy 1508 TCTCTAGAAAGTCTGCTTTCAGGATGTCGAGATGTCGAGATGTCGAGATGTCGAGAT 1567
Db 1545 TTTCTGGAAGATCTGATCTGATCATCTTCAAGTCAATCTCTCTGCTGCTGCTGCTGCTGCT 1603
Qy 1568 CTGACATATAGAGGACAGCAAGATGTCGAGATGTCGAGATGTCGAGATGTCGAGAT 1627
Db 1604 CTACACGTCAGAGACA---CTCAGACTGTGTCAAGCACTCAGAGGAGAGAGACTGCAGGC 1660
Qy 1628 CACGAGGATGTCAGATGTCGAGATGTCGAGATGTCGAGATGTCGAGATGTCGAGAT 1685
Db 1661 CACTACTGAAATCCAGCTCATGTACAGAAATCAATCAATGAGCACTCAATCAATCAATCAAT 1720
Qy 1686 TGAATTTGAAGTCACTATAAAGGTGACCTTCTGCTGT---AAGATTTTATTTTCAAGCAA 1744
Db 1721 TGAATTTGAAGTCACTATAAAGGTGACCTTCTGCTGT---AAGATTTTATTTTCAAGCAA 1780
Qy 1745 ATATTTATGACTCAACAAAGAGAACCA---TCTTTTGTAAAGTTCACCGTAGTAACA 1800
Db 1781 ATACTTATGACTCACTCAAGGAGAAATAGATGTCACTTGTAAATCACTGTAGTAGT 1840
Qy 1801 CATAAAGTAAATGCTTACCTCTGATCAAGACCTTGAATGAAGGTCGAGTCTTTTATG 1860
Db 1841 CATAAAGGAAAGTCTGACCTCTGACCTCTAGCCAGTCACTCTATGGAAGTTCCTATG 1900
Qy 1861 TGTTTTTCAGGGAATGAATCCATTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 1920
Db 1901 GGAATATGTGAGGNA-----AATGTTGCTTCCAAATTAATTTTACCTTTATGT 1951
Qy 1921 TAGCATCTGGCTAAGGCATCATTTTCACT 1950
Db 1952 TATAGTCTAGTTAAGACATCAGGGGATCT 1981

RESULT 13
US-08-430-286A-1
; Sequence 1, Application US/08430286A
; Patent No. 6225080
; GENERAL INFORMATION:
; APPLICANT: Uhl, George R.
; APPLICANT: Eppler, C. Mark
; APPLICANT: Wang, Jai-Bel
; TITLE OF INVENTION: Mu-Subtype Opioid Receptor
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby PC
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patencin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 28-APR-1995
; APPLICATION NUMBER: US/08/430,286A
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Robinson, Joseph R.
; REGISTRATION NUMBER: 33,448
; REFERENCE/DOCKET NUMBER: 0646/1A843-US5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-527-7700
; TELEFAX: 212-753-6237
; TELEX: 236687
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2135 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna to mRNA
; ORIGINAL SOURCE:
; ORGANISM: Rattus rattus
; IMMEDIATE SOURCE:
; CLONE: mu receptor cdna
; US-08-430-286A-1

Query Match 52.3%; Score 1131.8; DB 3; Length 2135;
Best Local Similarity 78.3%; Pred. No. 7.7e-289;
Matches 1458; Conservative 0; Mismatches 367; Indels 36; Gaps 7;
Qy 190 GTGCCGCCCGCGCTCAGTACCATGACAGCAGCGCTGCCCCCAGCAGCCAGCAGCAATT 249
Db 8 GTCCGACGACGCGCTTCCAGCACCATGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 67
Qy 250 GCATCTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCAGCAGCAGCAGCAGCAGCAG 309
Db 68 GCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCCAGCA-----CCTGGCTCTCTGGCTCA 121
Qy 310 ACTTGTCCCACTTTAGATGGCAACCTGTCGACCCATCGGCTCCGAAACCGCAACCAATCTGG 369
Db 122 ACTTGTCCCACTTTAGATGGCAACCTGTCGACCCATCGGCTCCGAAACCGCAACCGGCTTG 181
Qy 370 GCGGAGAGACAGCTGTGCTCCGACCGGCGAGTCCCTCCATGATCAGCGCCATCAGCA 429
Db 182 GCGGGAACGACAGCTGTGCTCCGACCGGCGAGTCCCTCCATGATCAGCGCCATCAGCA 241
Qy 430 TCATGGCCCTCTACTCCATCTGTCGCTGTGGGCTCTTTCGGAACCTTCTCTGTCTGTGT 489
Db 242 TCATGGCCCTCTACTCTATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 301
Qy 490 ATGTGATTGTGATACATACCAAGATGAAGACTGCCCAACATCTACATTTTCAACCTTG 549


```

; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cdna)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 339..1235
;
US-08-889-108-3

Query Match          50.9%; Score 1100.6; DB 3; Length 1618;
Best Local Similarity 83.4%; Pred. No. 1.2e-280;
Matches 1312; Conservative 0; Mismatches 249; Indels 12; Gaps 5;

QY 9 GGCCTATAGCAGAGGAGAAATGTCAGATGCTCAGTCGGTCCCTCGCCCTGAGCGTCCCTC 68
DB 11 GGCCTAACAGAGAGGAGAAATATCAGACGCTCAG-ACGTTCCCTCTCTGCGCTGCGCTCTTC 69

QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGGCGAAA 127
DB 70 TCTGGTTCCACTAGGCTGGTCCATGTAAGATCTGACGGAGCCTAGGGCAGCTGTGAGA 129

QY 128 GGAAGCGGTGAGGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTCGGTACCTCGCACAG 187
DB 130 GGAAGAGGCTGGGCGCGTGGAAACCCGAAAAGTCTGAGTGTCTCTCAGTTACAGCCTTAC-C 188

QY 188 CGGTGCCCGCCGCGCTCAGTACCATGGACAGCAGCGTGCCTCCCAACGACCGCAGCAA 247
DB 189 TAGTCCGAGAGCGGCTTCAGCAACCATGGACAGCAGCACCGGCCAGGGAACACCGCGA 248

QY 248 TTGCACTGATGCTTGGCGGTACTCAAGTTGCTCTCCAGCACCCAGCCCGCGTTCCTGGGT 307
DB 249 CTGCTCAGACCCCTTAGCTCAGSCAAGTTGCTCCCCAGCA-----CCTGGGTCTCTGGCT 302

QY 308 CAACTTGTCCGACTTAGATGGCAACCTGTCCGACCCATGGGTGCGGTCCGAAACCGCACCAATCT 367
DB 303 CAACTTGTCCGACTTAGATGGCAACCAAGTCCGATCCATGGGTCTGAAACCGCACCGGGCT 362

QY 368 GGGCGGAGAGACAGCGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAC 427
DB 363 TGGCGGGAAGCAGCAGCTGTGCCCTCAGACCGGACGCCCTTCATGGTCAAGCCCATAC 422

QY 428 GATCATGGCCCTCTACTCCATCGTGTGCGTGGTGGGGCTCTTCGGAAACTTCTCGTGCAT 487
DB 423 CATCATGGCCCTCTACTCTATCGTGTGTGAGTGGGCTCTTCGGAAACTTCTCGTGCAT 482

QY 488 GTATGTGATGTGAGATACACCAAGATGAAGACTGCCCAACATCTCAATTTCAACCT 547
DB 483 GTATGTGATTTGAAGATACACCAAAATGAAGACTGCCCAACATCTCAATTTCAACCT 542

QY 548 TGCCTCGGAGATGCCCTTAGCCACCAAGTACCCTGCGCTTCCAGAGTGAATTAACCTAAT 607
DB 543 TGCCTCGGAGAGCGCTTAGCGACCAAGTACACTGCGCTTTCAGAGTGTCACTACCTGAT 602

QY 608 GGGAAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGAATCTCCATAGATTACTATAA 667
DB 603 GGGAAACATGGCCCTTCGGAAACCATCTCTGCAAGATCGTGAATCTCAATAGATTACTACAA 662

QY 668 CATGTTTACAGCATATTCACCCCTCTGCAACCAATGAGTGTGATCGATACATTCGAGTCTG 727
DB 663 CATGTTTACAGCATATTCACCCCTCTGCAACCAATGAGCGTGGACCGCTACATTCGCTGCTG 722
```

```

QY 728 CCACCCCTGTCAAGGCGCTTAGATTTCCGTACTCTCCCGAAATGCCAAATATTAATCAATGCTCG 787
DB 723 CCACCCAGTCAAGGCGCTTGGATTTCCGTACTCCCGGAAATGCCAAATCGTCAACGCTCG 782

QY 788 CAACTGGATCTCTCTTACGCCATTTGGTCTTCTGTAATGTTTCAATGGCTACAAACAAAATA 847
DB 783 CAACTGGATCTCTCTTCTGCCATCGGTCTGCTGTAATGTTTCAATGGCAACCAACAAAATA 842

QY 848 CAGGCAAGGTTCCATAGATTGACACTAACATTTCTCTCATCCAACTGCTGCTGCTGCGGAAA 907
DB 843 CAGGCAAGGTTCCATAGATTGACACTAACATTTCTCTCATCCAACTGCTGCTGCTGCGGAAA 902

QY 908 CCTCGTGAAGATCTGTGTTTTTTCATCTTCCGCTTTCATTTATGCCAGTGTCTCATCATACCGT 967
DB 903 CCTCGTCAAAATCTGTGCTTTTATCTTCCGCTTTCATCATGCCGATCTCATCATCACTGT 962

QY 968 GTGCTATGGACTGATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027
DB 963 GTGTTACGGCTGATGATCTTACGACTCAAGAGCGTTTCGATGCTATCGGGCTCCAAAGA 1022

QY 1028 AAAGCAGAGGAATCTTCGAAGGATCACCAAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1087
DB 1023 AAAGCAGAGGAATCTGCGCAGGATCACCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1082

QY 1088 CGTCTGCTGGACTCCCAATTTCAATTTACGTCAATCAATTAAGGCTTTGGTTACAATCCCA 1147
DB 1083 CGTCTGCTGGACCCCAATCCCAATCTACGTCAATCAATCAAGCGCTGATCAGGATCCCA 1142

QY 1148 AACTACGTTTCAGACTGTTTTTCTGGCACTTTCGCAATGCTCTAGGTTTACAAACAGCTG 1207
DB 1143 AACCACATTTTCAGACCGTTTCTGGCACTTCTGCAATGCTTTGGGTTTACACGAACAGCTG 1202

QY 1208 CCTCAACCCAGTCTTATGCAATTTCTGGATGAAAACCTTCAACGATGCTTTCAGAGATT 1267
DB 1203 CCTGAATCCAGTCTTTTACGCTTCTTGGATGAAAACCTTCAAGCGATGCTTTCAGAGATT 1262

QY 1268 CTGTATCCCAACCTCTTCCAACTTGAAGCAACAAACTCCACTCGAATTCGTGAGAACAC 1327
DB 1263 CTGCAATCCCAACCTCTTCCAACTGTCGATCGACGACGCAAACTCCACTCGAGTCCGTGAGAACAC 1322

QY 1328 TAGAGACCAACCCCTCCAGGCGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387
DB 1323 TAGGGAACATCCCTCCAGCGCTAATACAGTGGATCGAACTAACCCACAGCTAGAAATCT 1382

QY 1388 GGAAGCAGAAACTGCTCCGTTGCCCTTAACAGGCTCTCATGCGATTCGACCTTCCACCAAG 1447
DB 1383 GGAAGCAGAAACTGCTCCATTTGCCCTTAACAGGCTCTCATGCGATTCGACCTTCCGTAAG 1442

QY 1448 CTTAGAAGCCACCATGTATGTGGAAGCAGGTTTGGTTTCAAGAAATGTGTAGAGGCTCTAAT 1507
DB 1443 CTTAGAAGCCGCAATCTAGTGGATCAGGTTTGTGTGAGGCTGTGTGGAGGCTCTGCT 1502

QY 1508 TCTCTAGGAAGTGGCTACTTTTAGGTCAATCCAACTCTTTTCTCTCTCTGCGGCACTCTGCT 1567
DB 1503 TTTCTGAGAAA---CCATCTGATCTCTGCAATTCAAAGTCAATCTCTCTCTGCTGCTGCT 1559

QY 1568 CTGCACATTAGAG 1580
DB 1560 CTGCACATGAGAG 1572
```

Search completed: January 8, 2006, 20:21:07
Job time : 369.698 secs

QY	241	CGAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCGACCCCGGTT	300
Db	241	CGAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCGACCCCGGTT	300
QY	301	CTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACCGCA	360
Db	301	CTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACCGCA	360
QY	361	CCAATCTGGCGGGAGAGACAGCCTGTGCGCTCCGACCGGCACTGCTCCATGATCACGG	420
Db	361	CCAATCTGGCGGGAGAGACAGCCTGTGCGCTCCGACCGGCACTGCTCCATGATCACGG	420
QY	421	CGATCAGGATCATGGCGCTTACTCCATCGTGTGCGGTGGGCTTTCGGAACTTCC	480
Db	421	CGATCAGGATCATGGCGCTTACTCCATCGTGTGCGGTGGGCTTTCGGAACTTCC	480
QY	481	TGCTCATGTATGTGATTGTCCAGATACACCAAGATGAAGACTGCGCACCAACATCTACATTT	540
Db	481	TGCTCATGTATGTGATTGTCCAGATACACCAAGATGAAGACTGCGCACCAACATCTACATTT	540
QY	541	TCAACCTTGCTTGGCAGATGCCCTTAGCCACCAAGTACCCTGCGCTTCCAGAGTGTGAAT	600
Db	541	TCAACCTTGCTTGGCAGATGCCCTTAGCCACCAAGTACCCTGCGCTTCCAGAGTGTGAAT	600
QY	601	ACCTAATGGGAACATGGCCATTTTGGACCATCTTTGCAAGATAGTATCTCCATAGATT	660
Db	601	ACCTAATGGGAACATGGCCATTTTGGACCATCTTTGCAAGATAGTATCTCCATAGATT	660
QY	661	ACTATAACATGTTTACCAGCATATTACCCCTCTGCACCATGAGTGTGATCGATACATTG	720
Db	661	ACTATAACATGTTTACCAGCATATTACCCCTCTGCACCATGAGTGTGATCGATACATTG	720
QY	721	CAGTCTGCCACCTGTCAAGGCTTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA	780
Db	721	CAGTCTGCCACCTGTCAAGGCTTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA	780
QY	781	ATGCTGCACTGGATCTCTCTTCCGCAATTCGCTCTTCTGTAATGTTTCATCGCTACAA	840
Db	781	ATGCTGCACTGGATCTCTCTTCCGCAATTCGCTCTTCTGTAATGTTTCATCGCTACAA	840
QY	841	CAAAATACAGGCAAGGTTCCATAGATTGTACACTTAACATTTCTCATCCAACTGGTACT	900
Db	841	CAAAATACAGGCAAGGTTCCATAGATTGTACACTTAACATTTCTCATCCAACTGGTACT	900
QY	901	GGGAAACCTCTGTGAAGATCTGTGTTTTTCATCTTCCGCTTTCATTTATGCCAGTCTCATCA	960
Db	901	GGGAAACCTCTGTGAAGATCTGTGTTTTTCATCTTCCGCTTTCATTTATGCCAGTCTCATCA	960
QY	961	TTACCGTGTCTATGGACTGATGCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Db	961	TTACCGTGTCTATGGACTGATGCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
QY	1021	CCAAAGAAAGGACAGGAATCTTTCGAAAGGATCACAGGATGTGCTGGTGGTGGCTG	1080
Db	1021	CCAAAGAAAGGACAGGAATCTTTCGAAAGGATCACAGGATGTGCTGGTGGTGGCTG	1080
QY	1081	TGTTTCATCGTCTGGACTCCCATTCACATTTACGTCATCAATTAAGCCCTTGGTTACAA	1140
Db	1081	TGTTTCATCGTCTGGACTCCCATTCACATTTACGTCATCAATTAAGCCCTTGGTTACAA	1140
QY	1141	TCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATTCGCTAGGTTACAA	1200
Db	1141	TCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATTCGCTAGGTTACAA	1200
QY	1201	ACAGCTGCTTCAACCCAGTCTTTATGCAATTTCTGGATGAAATCTTCAACAGTATGCTTCA	1260
Db	1201	ACAGCTGCTTCAACCCAGTCTTTATGCAATTTCTGGATGAAATCTTCAACAGTATGCTTCA	1260
QY	1261	GAGAGTTCTGTATCCCAACTCTTTCGAAATTTAGAGCAAAATCTCCACTCGAATTCGTC	1320
Db	1261	GAGAGTTCTGTATCCCAACTCTTTCGAAATTTAGAGCAAAATCTCCACTCGAATTCGTC	1320

RESULT 2

US-09-883-839-1
; Sequence 1, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839

; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063, 2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 GGAATTCGGCTATAGGCAGGAGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1 GGAATTCGGCTATAGGCAGGAGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 61 CGCTCCTCTCTGTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGC 120
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 61 CGCTCCTCTCTGTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGC 120
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 121 GGGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGTGCTCTCTGGCTACCT 180
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 121 GGGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGTGCTCTCTGGCTACCT 180
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 181 GGCACAGGCTGCCCGCCGCTGAGTACGAGCAGCAGCGCTGCCCGCCAGCAACG 240
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 181 GGCACAGGCTGCCCGCCGCTGAGTACGAGCAGCAGCGCTGCCCGCCAGCAACG 240
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCAGCCCGGTT 300
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCAGCCCGGTT 300
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 301 CTTGGGTCAATTTGTCCTCACTAGATGGCAACCTGTCCGACCCATGGGTCCGAAACCGCA 360
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 301 CTTGGGTCAATTTGTCCTCACTAGATGGCAACCTGTCCGACCCATGGGTCCGAAACCGCA 360
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 361 CCATCTGGGCGGAGAGACAGCTGTGCTCCGACCGCAGTCCCTCCATGATCAGG 420
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 361 CCATCTGGGCGGAGAGACAGCTGTGCTCCGACCGCAGTCCCTCCATGATCAGG 420
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGCTGGGGCTCTTCGGAAACTTCC 480
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGCTGGGGCTCTTCGGAAACTTCC 480
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 481 TGGTCAATGTATGTGATGTACAGATACACCAAGATGAAGCTGCCAACATCTACATTT 540
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 481 TGGTCAATGTATGTGATGTACAGATACACCAAGATGAAGCTGCCAACATCTACATTT 540
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCTCCCTCCAGAGTGAATT 600
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCTCCCTCCAGAGTGAATT 600
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 661 ACTATAACATGTTCAACAGCATATTCACCTCTGCAATGAGTGTGTGATGATGATGATG 720
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 661 ACTATAACATGTTCAACAGCATATTCACCTCTGCAATGAGTGTGTGATGATGATGATG 720
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATCA 780
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATCA 780
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 781 ATGTCGCACTGGATCTCTCTCAGGCATTTGGTCTTCTCTGTAATGTTTCATGGCTACAA 840
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db 781 ATGTCGCACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
Qy 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTATCTCTCATCCAACTGGTACT 900
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTATCTCTCATCCAACTGGTACT 900
Qy 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCAATATGCCAGTCTCATCA 960
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCAATATGCCAGTCTCATCA 960
Qy 961 TTACCGTGTCTATGGACTGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 961 TTACCGTGTCTATGGACTGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Qy 1021 CCAAGAAAAGGACAGGAATCTTCGAAGGATCAACAGGATGGTGTGGTGGTGGCTG 1080
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1021 CCAAGAAAAGGACAGGAATCTTCGAAGGATCAACAGGATGGTGTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGTGGACTCCCATTCACATTTACGTCATCAATTAAGCCCTTGGTTACAA 1140
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1081 TGTTCATCGTCTGTGGACTCCCATTCACATTTACGTCATCAATTAAGCCCTTGGTTACAA 1140
Qy 1141 TCCAGAAAATAGTTCAGACTGTGTTTCTGGCACTTCTGCACTTCTAGGTACACAA 1200
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1141 TCCAGAAAATAGTTCAGACTGTGTTTCTGGCACTTCTGCACTTCTAGGTACACAA 1200
Qy 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTCTGGATGAAAACCTTCAACAGTGTCTCA 1260
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTCTGGATGAAAACCTTCAACAGTGTCTCA 1260
Qy 1261 GAGAGTTCTGTATPCCAAACCTCTTCAACATTTAGCAACAAACCTCCTCGAATTCGTC 1320
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1261 GAGAGTTCTGTATPCCAAACCTCTTCAACATTTAGCAACAAACCTCCTCGAATTCGTC 1320
Qy 1321 AGAACAATAGAGACACCCCTCCAGCCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1321 AGAACAATAGAGACACCCCTCCAGCCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAAAACCTGCTCCGTGGCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1381 AAAATCTGGAAGCAGAAAACCTGCTCCGTGGCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTTAGAGCCACCATGTATGTGGAAGCAGGTTCCTTCAAGATTTGTGTAGAGG 1500
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1441 CACCAAGCTTTAGAGCCACCATGTATGTGGAAGCAGGTTCCTTCAAGATTTGTGTAGAGG 1500
Qy 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGTCTATCCAACTCTTTCTCTCTGGCCA 1560
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGTCTATCCAACTCTTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGCACATTTAGAGGGACAGCAAAAGTAAAGTGGAGCATTTGGAAAGGAAAGGAA 1620
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1561 CTCTGCTCTGCACATTTAGAGGGACAGCAAAAGTAAAGTGGAGCATTTGGAAAGGAAAGGAA 1620
Qy 1621 TATACCAACACCGAGGAGTCCAGTTTGTGCAAGCACCCAGTGGAAACCAAAACCCATCGT 1680
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1621 TATACCAACACCGAGGAGTCCAGTTTGTGCAAGCACCCAGTGGAAACCAAAACCCATCGT 1680
Qy 1681 GTATGTGAATTAAGTCAATATAAAGGTGACCCCTCTGTCTGTAAAGATTTTATTTTCAA 1740
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1681 GTATGTGAATTAAGTCAATATAAAGGTGACCCCTCTGTCTGTAAAGATTTTATTTTCAA 1740
Qy 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTAAGTAA 1800
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTAAGTAA 1800
Qy 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTTAG 1860
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTTAG 1860
Qy 1861 TGTTTTTGCAAGGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 1861 TGTTTTTGCAAGGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920

QY 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATTGTTTAAAAA 1980
DB 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATTGTTTAAAAA 1980
QY 1981 AATAACATCTTTTTCATCTAGCTTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
DB 1981 AATAACATCTTTTTCATCTAGCTTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
QY 2041 TCTGAACAACAGTCATGTGTCTANCTGTAGAAAGGTTGATTCATGCACTNCAATATCTT 2100
DB 2041 TCTGAAACACAGTCATGTGTCTANCTGTAGAAAGGTTGATTCATGCACTNCAATATCTT 2100
QY 2101 CCAGAGAGTCATCATGGGGATTTTTCATTTAGGCTTTTCACTGTTTGTTCCTGGAT 2160
DB 2101 CCAGAGAGTCATCATGGGGATTTTTCATTTAGGCTTTTCACTGTTTGTTCCTGGAT 2160
QY 2161 TC 2162
DB 2161 TC 2162

RESULT 3
US-10-225-567A-185
; Sequence 185, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenna C.
; APPLICANT: Roush, Kristine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: unknown nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: unknown nucleotide
US-10-225-567A-185

Query Match 99.8%; Score 2158.4; DB 5; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAAATTCGGCTATAGGCGAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGGCTGA 60
DB 1 GGAAATTCGGCTATAGGCGAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGGCTGA 60
QY 61 CGCTCTCTCTGTCTCAGCCAGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
DB 61 CGCTCTCTCTGTCTCAGCCAGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
QY 121 GGGGAAAGGAAGCGGCTGAGGCGCTTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT 180
DB 121 GGGGAAAGGAAGCGGCTGAGGCGCTTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT 180
QY 181 CGCACAGCGGTGCCCGCCCGGCGGTGAGTACCATGACAGCAGCGCTGCCCGCCACGAAAG 240
DB 181 CGCACAGCGGTGCCCGCCCGGCGGTGAGTACCATGACAGCAGCGCTGCCCGCCACGAAAG 240

QY 241 CCAGCAATTGCACCTGATGCCTTGGCGTACTCAAGTTGCTCCCCAGCACCCAGCCCGCGTT 300
DB 241 CCAGCAATTGCACCTGATGCCTTGGCGTACTCAAGTTGCTCCCCAGCACCCAGCCCGCGTT 300
QY 301 CTTGGGTCAAATTGTTGCCACTTTAGATGGCAACTCTGTCGACCCATGCGGTCCGAACCGCA 360
DB 301 CTTGGGTCAAATTGTTGCCACTTTAGATGGCAACTCTGTCGACCCATGCGGTCCGAACCGCA 360
QY 361 CCAATCTCGGGGGAGAGACAGCCCTGCCCTCCACCGGCGAGTCCCTCCATGATCACGG 420
DB 361 CCAACTCGGGGGAGAGACAGCCCTGTCCTCCACCGGCGAGTCCCTCCATGATCACGG 420
QY 421 CCATCAGCATCATGCGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTTCC 480
DB 421 CCATCAGCATCATGCGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTTCC 480
QY 481 TGGTCATGTATGTGATTTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
DB 481 TGGTCATGTATGTGATTTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGTGGCAGATGCCTTAGCCACCAAGTACCTGCCCTTCCAGAGTGTGAATT 600
DB 541 TCAACCTTGTCTGTGGCAGATGCCTTAGCCACCAAGTACCTGCCCTTCCAGAGTGTGAATT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTCTTTCGCAAGATAGTGATCTCCATAGATT 660
DB 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTCTTTCGCAAGATAGTGATCTCCATAGATT 660
QY 661 ACTATAACATGTTTCCACGACATATTCAACCTCTGCACCATGATGTTGATGATATATG 720
DB 661 ACTATAACATGTTTCCACGACATATTCAACCTCTGCACCATGATGTTGATGATATATG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTTAGATTTCGGTACTCCCGAAATGCAAAATATATCA 780
DB 721 CAGTCTGCCACCTGTCAAGGCTTTAGATTTCGGTACTCCCGTACTCCCGAAATGCAAAATATATCA 780
QY 781 ATGCTGCAAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATTTTCATGGCTACAA 840
DB 781 ATGCTGCAAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACT 900
DB 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACT 900
QY 901 GGGGAAACCTCGTGAAGATCTGTGTTTTCATCTCGCTTTCATTTATGCGCAGTGTCTATCA 960
DB 901 GGGGAAACCTCGTGAAGATCTGTGTTTTCATCTCGCTTTCATTTATGCGCAGTGTCTATCA 960
QY 961 TTACCGTGTGCTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
DB 961 TTACCGTGTGCTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCAAGGATCACAGGATGCTGCTGGTGGTGGCTG 1080
DB 1021 CCAAGAAAGGACAGGAATCTTCAAGGATCACAGGATGCTGCTGGTGGTGGCTG 1080
QY 1081 TGTTCATCTGCTGCTGGCTCCCATTTCACTTTAGTCACTAATAAGGCTTTGGTTTACAA 1140
DB 1081 TGTTCATCTGCTGCTGGCTCCCATTTCACTTTAGTCACTAATAAGGCTTTGGTTTACAA 1140
QY 1141 TCCAGAAACTACTAGTTCCAGACTGTTTCTTGGCAGTCTTTCGATTTGCTTAGGTTACACAA 1200
DB 1141 TCCAGAAACTACTAGTTCCAGACTGTTTCTTGGCAGTCTTTCGATTTGCTTAGGTTACACAA 1200
QY 1201 ACAGTGTCTCAACCCAGTCTTTATGATTTTCTGATGAAACCTTCAACAGATGTTTCA 1260
DB 1201 ACAGTGTCTCAACCCAGTCTTTATGATTTTCTGATGAAACCTTCAACAGATGTTTCA 1260
QY 1261 GAGAGTCTGTATCCCACTCTTCCAACTGAGCAACAACTCCACTCGAATTCGTC 1320
DB 1261 GAGAGTCTGTATCCCACTCTTCCAACTGAGCAACAACTCCACTCGAATTCGTC 1320
QY 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGTAG 1380

Db 1321 AGAACATAGAGACCACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCGGAAGCAGAAACTGCTCCGTTGGCCCTAACAGGGTCTCATGCCATTCGGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGGCCCTAACAGGGTCTCATGCCATTCGGACCTT 1440
Qy 1441 CACCAAGCTTAGAGCCACCATGATGTGGAAGCAGGTTCCTTCAAGAAATGTGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAGCCACCATGATGTGGAAGCAGGTTCCTTCAAGAAATGTGTAGGAGG 1500
Qy 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCGGCCA 1560
Db 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCGGCCA 1560
Qy 1561 CTCTGCTCTGCATATTAGAGGGAAGCAGCCAAAGTAAGTGGAGCATTTTGGAGGAAAGGAA 1620
Db 1561 CTCTGCTCTGCATATTAGAGGGAAGCAGCCAAAGTAAGTGGAGCATTTTGGAGGAAAGGAA 1620
Qy 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCCATCGTG 1680
Db 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCCATCGTG 1680
Qy 1681 GTATGTGAATTAAGTCAATATAAAGGTGACCCCTTCTGCTGTAAGATTTTATTTTCAA 1740
Db 1681 GTATGTGAATTAAGTCAATATAAAGGTGACCCCTTCTGCTGTAAGATTTTATTTTCAA 1740
Qy 1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCAATCTTTTGTAAAGTTTACCGTAGTAACA 1800
Db 1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCAATCTTTTGTAAAGTTTACCGTAGTAACA 1800
Qy 1801 CATAAAGTAATGCTACTCTGTATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTTAG 1860
Db 1801 CATAAAGTAATGCTACTCTGTATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTTAG 1860
Qy 1861 TGTATTTGCAAGGGAATGAATCCATTTCTATTTTGAATTTTAACTTTAACTTTAAAT 1920
Db 1861 TGTATTTGCAAGGGAATGAATCCATTTCTATTTTGAATTTTAACTTTAACTTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTGTTTGTATTTTAAATAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTGTTTGTATTTTAAATAA 1980
Qy 1981 AATAACATCTCTTTCATCTAGCTCAATTTTGAAGGGAAGAGATAGCATGAAAGGTAA 2040
Db 1981 AATAACATCTCTTTCATCTAGCTCAATTTTGAAGGGAAGAGATAGCATGAAAGGTAA 2040
Qy 2041 TCTGAAACACAGTCATGTGCANCTGTAGAAAGGTGATTTCTCATGCACTNCAATACTT 2100
Db 2041 TCTGAAACACAGTCATGTGCANCTGTAGAAAGGTGATTTCTCATGCACTNCAATACTT 2100
Qy 2101 CCAAGAGTCATCATGGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGTGTTTCTCGGAAT 2160
Db 2101 CCAAGAGTCATCATGGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGTGTTTCTCGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 4
US-10-305-720-1379
; Sequence 1379, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490

; SOFTWARE: PERL Program
; SEQ ID NO 1379
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 9452072
; NAME/KEY: unsure
; LOCATION: (1) ... (2162)
; OTHER INFORMATION: a, t, c, g, or other
US-10-305-720-1379

Query Match 99.8%; Score 2158.4; DB 6; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGCAGAGGAGAAATGTCAGATGCTCAGCTCGTCCCTCCGCTCG 60
Db 1 GGAATTCGGCTATAGCAGAGGAGAAATGTCAGATGCTCAGCTCGTCCCTCCGCTCG 60
Qy 61 CGCTCCTCTCTGCTCAGCCAGGACTGCTTCTGTAGAAACAGCAGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTGCTCAGCCAGGACTGCTTCTGTAGAAACAGCAGAGCTGTGGCAGC 120
Qy 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGCTACCT 180
Db 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGCTACCT 180
Qy 181 CGCACAGCGTGGCCCGCCGCTCAGTACCATGGAAGAGCGCTGCCCCCAGAACG 240
Db 181 CGCACAGCGTGGCCCGCCGCTCAGTACCATGGAAGAGCGCTGCCCCCAGAACG 240
Qy 241 CAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCCGGTT 300
Db 241 CAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCCGGTT 300
Qy 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
Db 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
Qy 361 CCAATCTGGGCGGAGAGACAGCGCTGTCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAATCTGGGCGGAGAGACAGCGCTGTCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACCTTCC 480
Db 421 CCATCAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACCTTCC 480
Qy 481 TGGTCATGTATGATTTGTCAGATACACCAAGATGAAGACTGCGCAACCAATCTACATTT 540
Db 481 TGGTCATGTATGATTTGTCAGATACACCAAGATGAAGACTGCGCAACCAATCTACATTT 540
Qy 541 TCAACCTTGTCTCGCAGATGCTTACCCACAGTACCTTCCCTTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTCGCAGATGCTTACCCACAGTACCTTCCCTTCCAGAGTGTGAAT 600
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTATCTCCATAGATT 660
Qy 661 ACTATAACATGTTTCAACGAGATATTTACCTCTCCACCATGAGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTCAACGAGATATTTACCTCTCTCCACCATGAGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATATCA 780
Db 721 CAGTCTGCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATATCA 780
Qy 781 ATGTCTGCAATGGAATCTCTCTTCAAGCAATGCTTCTCTGTAATGTTTCAATGCTACAA 840
Db 781 ATGTCTGCAATGGAATCTCTCTTCAAGCAATGCTTCTCTGTAATGTTTCAATGCTACAA 840

QY 841 CAAATACAGCGAGGTTCCATAGATTGTACATACTCTCTCATCCAACTCGTACT 900
DB 841 CAAATACAGCGAAGGTTCCATAGATTGTACATACTCTCTCATCCAACTCGTACT 900
QY 901 GGGAAACCTCGTGAAGACTCTGTGTTTTCATCTTCGCCCTTCATATATGCCAGTGCTCATCA 960
DB 901 GGGAAACCTCGTGAAGACTCTGTGTTTTCATCTTCGCCCTTCATATATGCCAGTGCTCATCA 960
QY 961 TTACCGTGTCTATGACATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
DB 961 TTACCGTGTCTATGACATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTGG 1080
DB 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTGGTGG 1080
QY 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATATTAAGCGCTTGGTTACAA 1140
DB 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATATTAAGCGCTTGGTTACAA 1140
QY 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
DB 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCCCTTATGCACTTCTGGATGAAACTTCAAACGATCTTCA 1260
DB 1201 ACAGCTGCCTCAACCCAGTCCCTTATGCACTTCTGGATGAAACTTCAAACGATCTTCA 1260
QY 1261 GAGAGTCTGTATCCCAACTCTTCCAAATGAGCAACAAACTCCACTCGAATTCGTC 1320
DB 1261 GAGAGTCTGTATCCCAACTCTTCCAAATGAGCAACAAACTCCACTCGAATTCGTC 1320
QY 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGAGTAACTATCATCTAG 1380
DB 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGAGTAACTATCATCTAG 1380
QY 1381 ARAATCTGAGCAGAACTGCTCCGTTGCCCTTAACAGAGTCTCATGCCATTCGACCTT 1440
DB 1381 ARAATCTGAGCAGAACTGCTCCGTTGCCCTTAACAGAGTCTCATGCCATTCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCACCATGTATGTGAAGCAGGTTGCTTCAAGAATGTGAGGAG 1500
DB 1441 CACCAAGCTTAGAAGCACCATGTATGTGAAGCAGGTTGCTTCAAGAATGTGAGGAG 1500
QY 1501 CTCTAATCTCTAGGAAAGTGCCCTATTTTAGGTCATCCAACTCTCTCTCTGGCCA 1560
DB 1501 CTCTAATCTCTAGGAAAGTGCCCTATTTTAGGTCATCCAACTCTCTCTCTGGCCA 1560
QY 1561 CTCTGCTCTGCATTTAGAGGACAGCAAAAGTAAAGTGAAGTGAAGTGAAGTGAAG 1620
DB 1561 CTCTGCTCTGCATTTAGAGGACAGCAAAAGTAAAGTGAAGTGAAGTGAAGTGAAG 1620
QY 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCG 1680
DB 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCG 1680
QY 1681 GTATGTGAATGAAGTCAATATAAAGGTGACCCCTCTGCTGTAAGAATTTTATTTC 1740
DB 1681 GTATGTGAATGAAGTCAATATAAAGGTGACCCCTCTGCTGTAAGAATTTTATTTC 1740
QY 1741 GCNAATATTATGACCTCAACAGAGAACATCTTTTGTAAAGTTCACCGTAGTAA 1800
DB 1741 GCNAATATTATGACCTCAACAGAGAACATCTTTTGTAAAGTTCACCGTAGTAA 1800
QY 1801 CATAAAGTAAATGCTTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTT 1860
DB 1801 CATAAAGTAAATGCTTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTT 1860
QY 1861 TGTTTTTCAGGGAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920
DB 1861 TGTTTTTCAGGGAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920

RESULT 5

US-10-500-050-1
; Sequence 1, Application US/10500050
; Publication No. US20050106568A1
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Method of Quantifying Nucleic Acid And Kit for Quantifying Nucleic Acid
; FILE REFERENCE: P02-0156
; CURRENT APPLICATION NUMBER: US/10/500,050
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: JP 2001-400280
; PRIOR FILING DATE: 2001-12-28
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063.. 2091
; OTHER INFORMATION: n stands for any base
US-10-500-050-1

Query Match 99.8%; Score 2158.4; DB 9; Length 2162;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGAATTCGGCTATAGGCAGAGAGAGAAATGTCAAGATGCTCAGCTCCGCTCCCTCCGCTGA 60
DB 1 GGAATTCGGCTATAGGCAGAGAGAGAAATGTCAAGATGCTCAGCTCCGCTCCCTCCGCTGA 60
QY 61 CGCTCCTCTCTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGC 120
DB 61 CGCTCCTCTCTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGC 120
QY 121 GCGGAAAGGAGCGGCTGAGCGCTTGGNAACCGGAAAGTCTCGGTGCTCCTGGCTACCT 180
DB 121 GCGGAAAGGAGCGGCTGAGCGCTTGGNAACCGGAAAGTCTCGGTGCTCCTGGCTACCT 180
QY 181 CGCACAGCGGTGCCCGCCCGCGCGTCAAGTACCATGGACAGCAGCGCTGCCCGCCACG 240
DB 181 CGCACAGCGGTGCCCGCCCGCGCGTCAAGTACCATGGACAGCAGCGCTGCCCGCCACG 240
QY 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTTCCCAGCAGCCAGCCCGGTT 300
DB 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTTGCTTCCCAGCAGCCAGCCCGGTT 300
QY 301 CTTGGGTCAACTGTGTCCTTGTAGTGGCAACTGTGCCGACCATCGCGTCCGAAACCGCA 360
DB 301 CTTGGGTCAACTGTGTCCTTGTAGTGGCAACTGTGCCGACCATCGCGTCCGAAACCGCA 360
QY 361 CCAATCTGGGCGGAGAGACAGCAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420

; NAME/key: misc feature									
; LOCATION: 2063_2091									
; OTHER INFORMATION: n = A,T,C or G									
US-09-883-839-3									
Query Match 99.8%; Score 2156.8; DB 3; Length 2162;									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;									
QY	1	GGAAATCCGGCTATAGCGAGAGGAGAAATGTCAGATGCTCAGCTCGTCCGCTCCGCTCGA	60						
DB	1	GGAAATCCGGCTATAGCGAGAGGAGAAATGTCAGATGCTCAGCTCGTCCGCTCCGCTCGA	60						
QY	61	CGCTCCTCTCTGCTCAGCCAGGACTGGTTCTGTAAGAAACAGCAGGAGCTGTGCAGC	120						
DB	61	CGCTCCTCTCTGCTCAGCCAGGACTGGTTCTGTAAGAAACAGCAGGAGCTGTGCAGC	120						
QY	121	GGCGAAAGGAAGCGGCTGAGGCGCTTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT	180						
DB	121	GGCGAAAGGAAGCGGCTGAGGCGCTTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT	180						
QY	181	CGCAGACGGTGCCCGCCGCGCGCTCAGTACCAATGACAGCAGCGCTGCCCGCCACGAACG	240						
DB	181	CGCAGACGGTGCCCGCCGCGCGCTCAGTACCAATGACAGCAGCGCTGCCCGCCACGAACG	240						
QY	241	CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTTGCTCCCGACACCCAGCCCGGTT	300						
DB	241	CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTTGCTCCCGACACCCAGCCCGGTT	300						
QY	301	CCTGGGTCAACTTGTGCCACTTAGATGGCAACCTGFCGACCCCATCGSTCCGAAACCGCA	360						
DB	301	CCTGGGTCAACTTGTGCCACTTAGATGGCAACCTGFCGACCCCATCGSTCCGAAACCGCA	360						
QY	361	CAAATCTGGCGGGAAGACAGCCTGTGCCCTCCGACCGGACGCTCCTCGATGATCACGG	420						
DB	361	CAAATCTGGCGGGAAGACAGCCTGTGCCCTCCGACCGGACGCTCCTCGATGATCACGG	420						
QY	421	CCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACCTTCC	480						
DB	421	CCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACCTTCC	480						
QY	481	TGCTCATGTATGTGATTTGTGCAGATACACCAAGATGAAGACTGCCACCAACATCTCAATTT	540						
DB	481	TGCTCATGTATGTGATTTGTGCAGATACACCAAGATGAAGACTGCCACCAACATCTCAATTT	540						
QY	541	TCAACCTTGTCTGGCAGATGCCCTTAGCCACCAAGTACCCTGGCCCTTCCAGAGTGTGAATTT	600						
DB	541	TCAACCTTGTCTGGCAGATGCCCTTAGCCACCAAGTACCCTGGCCCTTCCAGAGTGTGAATTT	600						
QY	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATT	660						
DB	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATT	660						
QY	661	ACTATAACATGTTTCAACAGATATTCAACCTCTGACCAATGAGTGTGATCGATACATTG	720						
DB	661	ACTATAACATGTTTCAACAGATATTCAACCTCTGACCAATGAGTGTGATCGATACATTG	720						
QY	721	CAGTCTGCCACCTGTCAAGGCCTTAGATTTCCGTAATTCCTCCCGAAATGCCAAATTTATCA	780						
DB	721	CAGTCTGCCACCTGTCAAGGCCTTAGATTTCCGTAATTCCTCCCGAAATGCCAAATTTATCA	780						
QY	781	ATGCTGTGCACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA	840						
DB	781	ATGCTGTGCACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA	840						
QY	841	CAAAATACAGGCAAGGTTTCCATAGATTGTACACTAACATTTCTCATCCAAACCTGGTACT	900						
DB	841	CAAAATACAGGCAAGGTTTCCATAGATTGTACACTAACATTTCTCATCCAAACCTGGTACT	900						
QY	901	GGGAAACCTCTGTGAAGATCTGTGTTTTTCATCTTCGCTTCATTTATGCCAGTCTCATCA	960						
DB	901	GGGAAACCTCTGTGAAGATCTGTGTTTTTCATCTTCGCTTCATTTATGCCAGTCTCATCA	960						

QY	961	TTACCGTGTGCTATGAGCTGATGATCTTTCGGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
DB	961	TTACCGTGTGCTATGAGCTGATGATCTTTCGGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
QY	1021	CCAAAGAAAAGGACAGGAACTTTCCAGAGGATCACCAGGATGCTGTGGTGGTGGCTG	1080
DB	1021	CCAAAGAAAAGGACAGGAACTTTCCAGAGGATCACCAGGATGCTGTGGTGGTGGCTG	1080
QY	1081	TGTTTCATCGTCTGCTGGACTCCCATTCACATTTAGCTCATATTAAAGCTTTGGTTACAA	1140
DB	1081	TGTTTCATCGTCTGCTGGACTCCCATTCACATTTAGCTCATATTAAAGCTTTGGTTACAA	1140
QY	1141	TCCCGAAAACACTAGTTCAGACTGTTTCTTGACACTTTCTGCAATGCTCTAGGTTACAA	1200
DB	1141	TCCCGAAAACACTAGTTCAGACTGTTTCTTGACACTTTCTGCAATGCTCTAGGTTACAA	1200
QY	1201	ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGATGAAAACCTTCAACGATGCTTCA	1260
DB	1201	ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGATGAAAACCTTCAACGATGCTTCA	1260
QY	1261	GAGAGTCTGTATCCCAACTCTTCCAACTTGAGCAACAAAACCTCACTCCGAATTCGTC	1320
DB	1261	GAGAGTCTGTATCCCAACTCTTCCAACTTGAGCAACAAAACCTCACTCCGAATTCGTC	1320
QY	1321	AGAACTAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCACTAG	1380
DB	1321	AGAACTAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCACTAG	1380
QY	1381	AAAATCTGGACAGAAACTGCTCGTTGCCCTTAACAGGCTCTCATGCCATTCGACCTT	1440
DB	1381	AAAATCTGGACAGAAACTGCTCGTTGCCCTTAACAGGCTCTCATGCCATTCGACCTT	1440
QY	1441	CACCAAGCTTTAGAACCCACATGATGTGGAAGCAGGTTGCTTCAAGATGTGTAGGAG	1500
DB	1441	CACCAAGCTTTAGAACCCACATGATGTGGAAGCAGGTTGCTTCAAGATGTGTAGGAG	1500
QY	1501	CTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTTCATCAACCTCTTTCTCTGGCCA	1560
DB	1501	CTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTTCATCAACCTCTTTCTCTGGCCA	1560
QY	1561	CTCTGCTGTGCACATTTAGGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGAAAGGA	1620
DB	1561	CTCTGCTGTGCACATTTAGGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGAAAGGA	1620
QY	1621	TATACACACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCTCGTG	1680
DB	1621	TATACACACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCTCGTG	1680
QY	1681	GTATGTGAATTGAAGTTCATCAAAAGGAGTGCCTTCTGCTGTGAAGATTTTATTTCAA	1740
DB	1681	GTATGTGAATTGAAGTTCATCAAAAGGAGTGCCTTCTGCTGTGAAGATTTTATTTCAA	1740
QY	1741	GCAATATTTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCCCGTAGTAACA	1800
DB	1741	GCAATATTTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCCCGTAGTAACA	1800
QY	1801	CATAAGTAAATGCTTACCTCTCATCAAAAGCACCTTGAAATGGAGGTCCTTTTAG	1860
DB	1801	CATAAGTAAATGCTTACCTCTCATCAAAAGCACCTTGAAATGGAGGTCCTTTTAG	1860
QY	1861	TGTTTTTGCAGGGAATGAATCCATTTATTTTATGACTTTTAACTTTCAACTTTAAAT	1920
DB	1861	TGTTTTTGCAGGGAATGAATCCATTTATTTTATGACTTTTAACTTTCAACTTTAAAT	1920
QY	1921	TAGCATCTGGCTAAGGCATTTTCACTTCATTTCTTGGTTTGTATTTGTTTAAAAA	1980
DB	1921	TAGCATCTGGCTAAGGCATTTTCACTTCATTTCTTGGTTTGTATTTGTTTAAAAA	1980
QY	1981	AATAACATCTCTTTTCACTTAGCTCCATAATTCGAAGGAGAGATTTAGCATGAAAGTAA	2040
DB	1981	AATAACATCTCTTTTCACTTAGCTCCATAATTCGAAGGAGAGATTTAGCATGAAAGTAA	2040
QY	2041	TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAAGTTGATTTCTCATGCACTNCAATACTT	2100

Db 2041 TCTGAACACAGTCATGTGTGCANCTGTAGAAAGGTTGATTCTCATGCACINCAAATACTT 2100
Qy 2101 CCAAGAGTCATCATGGGGGATTTTTCATCTTAGGCTTTTCAGTGGTTTGTCTCTGGAAT 2160
Db 2101 CCAAGAGTCATCATGGGGGATTTTTCATCTTAGGCTTTTCAGTGGTTTGTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 7

US-09-883-839-5
; Sequence 5, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-5

Query Match 99.8%; Score 2156.8; DB 3; Length 2162;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAGAGGAGATGTACAGATGCTCAGTCCGTCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGCAGAGGAGATGTACAGATGCTCAGTCCGTCCTCCGCTGA 60
Qy 61 CGCTCCTCTGTCTCAGCCAGGAGTGGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTGTCTCAGCCAGGAGTGGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGC 120
Qy 121 GCGAAAGGAAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTGGCTACCT 180
Db 121 GCGAAAGGAAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTGGCTACCT 180
Qy 181 GCGCAGCGGTGCGCGCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAAG 240
Db 181 GCGCAGCGGTGCGCGCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAAG 240
Qy 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCCAGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCCAGCCCGGTT 300
Qy 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTGCGACCCCATGCGGTCCGAAACCGCA 360
Db 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTGCGACCCCATGCGGTCCGAAACCGCA 360
Qy 361 CCAATCTGGCGGAGACAGCCTGTGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAACCTGGCGGAGACAGCCTGTGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGCATATGCGCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
Db 421 CCATCAGCATATGCGCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480

Db 421 CCATCAGCATATGCGCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
Qy 481 TGTGTCATGTATGTGATTGTTCAGATACACCAAGATGAAGACTGCGCACCAACATCTACATTT 540
Db 481 TGTGTCATGTATGTGATTGTTCAGATACACCAAGATGAAGACTGCGCACCAACATCTACATTT 540
Qy 541 TCAACCTTGTCTGGCAGATGCTTACGCAACAGTACCCCTTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTGGCAGATGCTTACGCAACAGTACCCCTTCCAGAGTGTGAAT 600
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Qy 661 ACTATAACATGTTTCAACAGCATATTTCAACCTCTGACCATGAGTGTGATGATGATGATG 720
Db 661 ACTATAACATGTTTCAACAGCATATTTCAACCTCTGACCATGAGTGTGATGATGATGATG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGTTACTCCCGGAAATGCCAAATTTATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGTTACTCCCGGAAATGCCAAATTTATCA 780
Qy 781 ATGCTGCAACTGGATCCTCTCTTCAGCCATTTGCTCTGTAATGTTTATGCTGCTCA 840
Db 781 ATGCTGCAACTGGATCCTCTCTTCAGCCATTTGCTCTGTAATGTTTATGCTGCTCA 840
Qy 841 CAAATAACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCAACTGGTACT 900
Db 841 CAAATAACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCAACTGGTACT 900
Qy 901 GGGAAACCTCGTGAAGATCTGTTTTCATCTTGGCTTCAATATGCCAGTGTCTATCA 960
Db 901 GGGAAACCTCGTGAAGATCTGTTTTCATCTTGGCTTCAATATGCCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGATGATCTTTCGCTCAGAGTGTCCGATGCTCTCTCTGCT 1020
Db 961 TTACCGTGTCTATGATGATCTTTCGCTCAGAGTGTCCGATGCTCTCTCTGCT 1020
Qy 1021 CCAAGAAAGGAGCAGGAATCTTCGAAGATCACCAGGATGGTGTCTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGAGCAGGAATCTTCGAAGATCACCAGGATGGTGTCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTAAGCCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTAAGCCCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACACAA 1200
Db 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACACAA 1200
Qy 1201 ACAGTCCCTCAACCCAGTCTTTTATGCATTTCTGGATGAAACTTCAAAACGATGCTTCA 1260
Db 1201 ACAGTCCCTCAACCCAGTCTTTTATGCATTTCTGGATGAAACTTCAAAACGATGCTTCA 1260
Qy 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTTGAGCAACAAATCTCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTTGAGCAACAAATCTCACTCGAATTCGTC 1320
Qy 1321 AGAACACTAGACACACCTTCCAGCGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGACACACCTTCCAGCGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTAACAGGGTCTCATGCGCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTAACAGGGTCTCATGCGCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
Qy 1501 CTCCTAATCTCTAGGAAAGTGCCTACTTTTAGGTCATCCAACTCTTCTCTCTGCGCA 1560
Db 1501 CTCCTAATCTCTAGGAAAGTGCCTACTTTTAGGTCATCCAACTCTTCTCTCTGCGCA 1560

1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAAGTAAAGTGGAGCATTTTGAAGGAA 1620
1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAAGTAAAGTGGAGCATTTTGAAGGAA 1620
1621 TATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGAACCAAAACCCATCGTG 1680
1621 TATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGAACCAAAACCCATCGTG 1680
1681 GTATGTGAATTGAATCATATAAAAGGTGACCTTCTGTCTGTAAAGATTTATTTTCAA 1740
1681 GTATGTGAATTGAATCATATAAAAGGTGACCTTCTGTCTGTAAAGATTTATTTTCAA 1740
1741 GCAAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACCGTAGTAACA 1800
1741 GCAAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACCGTAGTAACA 1800
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTATAG 1860
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTATAG 1860
1861 TGTATTTGCAAGGGAATGAATCCATTTATTTAGACTTTTAACTTTCAACTTAAAT 1920
1861 TGTATTTGCAAGGGAATGAATCCATTTATTTAGACTTTTAACTTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGCATATTTTCCACCTCCAATTTCTTGGTTTGTATTTAAATAA 1980
1921 TAGCATCTGGCTAAGGCATATTTTCCACCTCCAATTTCTTGGTTTGTATTTAAATAA 1980
1981 AATAACATCTTTTCACTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
1981 AATAACATCTTTTCACTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
2041 TCTGAAACACAGTCATGTGTCACTAGCTAGAGGTTGATTTCTATGCACTNCAATACATT 2100
2041 TCTGAAACACAGTCATGTGTCACTAGCTAGAGGTTGATTTCTATGCACTNCAATACATT 2100
2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGCTTCTTCTGGAAT 2160
2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGCTTCTTCTGGAAT 2160
2161 TC 2162
2161 TC 2162

RESULT 8
US-09-883-839-8
; Sequence 8, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-8

Query Match 99.8%; Score 2156.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGAGGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGAGGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTCTGTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTGTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
QY 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTCGGTACCT 180
Db 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTCGGTACCT 180
QY 181 GCGCAGCGGTGCGCGCGCGCGCTCAGTACCATGGAAGCAGCGGTGCGCCCAAGACG 240
Db 181 GCGCAGCGGTGCGCGCGCGCGCTCAGTACCATGGAAGCAGCGGTGCGCCCAAGACG 240
QY 241 CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGGTT 300
Db 241 CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGGTT 300
QY 301 CCTGGGTCAAATTTGTCCCACTTTAGATGGCAACCTGTCCGACCCATCGCGTCCGAAACGCA 360
Db 301 CCTGGGTCAAATTTGTCCCACTTTAGATGGCAACCTGTCCGACCCATCGCGTCCGAAACGCA 360
QY 361 CCAATCTGGGCGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTTCATGATCACGG 420
Db 361 CCAATCTGGGCGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTTCATGATCACGG 420
QY 421 CCATCACCATTATGCGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGAAACTTCC 480
Db 421 CCATCACCATTATGCGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGAAACTTCC 480
QY 481 TGGTCAATGTATGTGATTTGTCAGATACCAAGATGAAGCTGCCACCAACATCTACATTT 540
Db 481 TGGTCAATGTATGTGATTTGTCAGATACCAAGATGAAGCTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTTAGCCACCCAGTACCCCTGCTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTGGCAGATGCTTTAGCCACCCAGTACCCCTGCTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGACATGGCCATTTTGAACCATCTCTTTCGAAAGATAGTGTCTCATAGATT 660
Db 601 ACCTAATGGGACATGGCCATTTTGAACCATCTCTTTCGAAAGATAGTGTCTCATAGATT 660
QY 661 ACTATAACATGTTTCAACAGCATATTTCAACCTCTGCACCATGATGTTGATCGATATTG 720
Db 661 ACTATAACATGTTTCAACAGCATATTTCAACCTCTGCACCATGATGTTGATCGATATTG 720
QY 721 CAGTCTGCGACCTGTCTAAGGCTTTAGATTTCGCTACTCTCCCGAAATGCGCAAAATATCA 780
Db 721 CAGTCTGCGACCTGTCTAAGGCTTTAGATTTCGCTACTCTCCCGAAATGCGCAAAATATCA 780
QY 781 ATGCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
Db 781 ATGCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGTACT 900
QY 901 GGGAAAACTCGTGAAGATCTGTGTTTTTCATCTTCGCTTCAATTTATGCGAGTGCTCATCA 960
Db 901 GGGAAAACTCGTGAAGATCTGTGTTTTTCATCTTCGCTTCAATTTATGCGAGTGCTCATCA 960
QY 961 TTACCGTGTCTATGAGTCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGAGTCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGGCTG 1080

Db 1021 CCAAAGAAAGGACGAGAACTCTTCGAGGATCACCAGGATGGTGGTGGCTG 1080
Qy TGTTCATGCTGCTGAGCTCCCATTCACATTTAGTCATCATTAAGCCCTTGGTTACAA 1140
Db TGTTCATGCTGCTGAGCTCCCATTCACATTTAGTCATCATTAAGCCCTTGGTTACAA 1140
Qy TCCAGAAACTAGTTCACAGCTGTTTCTTGGCACTTCTGCATTTGCTCTAGGTTACAA 1200
Db TCCAGAAACTAGTTCACAGCTGTTTCTTGGCACTTCTGCATTTGCTCTAGGTTACAA 1200
Qy ACAGCTCCCTCAACCCAGTCTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTCA 1260
Db ACAGCTCCCTCAACCCAGTCTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTCA 1260
Qy GAGAGTTCTGTATCCCAACCTCTTCCAACTTTAGAGCAAAACTCCACTCGAATTCGT 1320
Db GAGAGTTCTGTATCCCAACCTCTTCCAACTTTAGAGCAAAACTCCACTCGAATTCGT 1320
Qy AGACACTAGAGACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db AGACACTAGAGACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy AATACTGGAAGCAGAAACTGCTCCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Db AATACTGGAAGCAGAAACTGCTCCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Qy CACCAAGCTTAGAAGCACCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGAGG 1500
Db CACCAAGCTTAGAAGCACCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGAGG 1500
Qy CTCTAATCTCTAGGAAGTGCCTTCTTTAGGTATCCCAACCTCTTCTCTGCGCA 1560
Db CTCTAATCTCTAGGAAGTGCCTTCTTTAGGTATCCCAACCTCTTCTCTCTGCGCA 1560
Qy CTCTGCTCTGCATATAGAGGACAGCCAAAGTAAGTGGAGCATTTGGGAAGGAAAGGAA 1620
Db CTCTGCTCTGCATATAGAGGACAGCCAAAGTAAGTGGAGCATTTGGGAAGGAAAGGAA 1620
Qy TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Db TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Qy GTATGTGAATGAAGTCAATATAAAGTGAACCTTCTGCTGTAAGATTTATTTTCAA 1740
Db GTATGTGAATGAAGTCAATATAAAGTGAACCTTCTGCTGTAAGATTTATTTTCAA 1740
Qy GCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCAACGTAGTAACA 1800
Db GCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCAACGTAGTAACA 1800
Qy CATAAAGTAAATGCTTACCTCTGATCAAGCACCTTGAATGAAGTCCGAGTCTTTTATAG 1860
Db CATAAAGTAAATGCTTACCTCTGATCAAGCACCTTGAATGAAGTCCGAGTCTTTTATAG 1860
Qy TGTTTTTCGAAGGAAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920
Db TGTTTTTCGAAGGAAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920
Qy TAGCATCTGGCTAAGGCATCAATTTTACCTCATTTCTGTTGTTGTTATTTTAAAAA 1980
Db TAGCATCTGGCTAAGGCATCAATTTTACCTCATTTCTGTTGTTGTTATTTTAAAAA 1980
Qy AATAACATCTCTTTCATCTAGCTCCATTAATTTGCAAGGAAAGATTAGCATGAAGGTAA 2040
Db AATAACATCTCTTTCATCTAGCTCCATTAATTTGCAAGGAAAGATTAGCATGAAGGTAA 2040
Qy TCTGAAACACAGTCAATGTGTCANCTGTAGAAAGGTGATTTCTCATGCTNCAATACCT 2100
Db TCTGAAACACAGTCAATGTGTCANCTGTAGAAAGGTGATTTCTCATGCTNCAATACCT 2100
Qy CCAAGAGTCAATGAGGGAATTTTCAATCTTAGGCTTTTCAAGTGGTTTCTCTGGAAT 2160
Db CCAAGAGTCAATGAGGGAATTTTCAATCTTAGGCTTTTCAAGTGGTTTCTCTGGAAT 2160

Db 2101 CCAAAGAGTCATCANGGGGATTTTTCATCTTAGGCTTTTCAAGTGGTTTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162
RESULT 9
US-09-883-839-9
; Sequence 9, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; PRIOR FILING DATE: 2001-06-18
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2165
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2066, 2094
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-9
Query Match 99.2%; Score 2145.4; DB 3; Length 2165;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
Qy 1 GGAATTCGGCTATAGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA 60
Db 1 GGAATTCGGCTATAGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA 60
Qy 61 CGCTCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAACAGAGAGCTGTGGCAGC 120
Db 61 CGCTCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAACAGAGAGCTGTGGCAGC 120
Qy 121 GCGCAAGGAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTCTCTTGGCTACCT 180
Db 121 GCGCAAGGAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTCTCTTGGCTACCT 180
Qy 181 CGCACAGCGGTGCCCGCGCTCAGTACCATGGACAGCGCTGCCCCACGAAACG 240
Db 181 CGCACAGCGGTGCCCGCGCTCAGTACCATGGACAGCGCTGCCCCACGAAACG 240
Qy 241 CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGACACCCAGCCCGGTT 300
Db 241 CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGACACCCAGCCCGGTT 300
Qy 301 CTTGGGTCAAATGTTGCCACTTATAGTGGCAACCTGTCCGACCCATGCGGTCCGAAACGCA 360
Db 301 CTTGGGTCAAATGTTGCCACTTATAGTGGCAACCTGTCCGACCCATGCGGTCCGAAACGCA 360
Qy 361 CCAATCTGGCGGGGAGAGACAGCTGTGCCCTCCGACCCGGCGGAGTCCCTTCCATGATCA 417
Db 361 CCAATCTGGCGGGGAGAGACAGCTGTGCCCTCCGACCCGGCGGAGTCCCTTCCATGATCA 420
Qy 418 CGGCCATTCAGATCATGGCCCTCTACTTCCATCTGTGCTGTGGTGGGCTCTTTCGGAACCT 477
Db 421 CGGCCATTCAGATCATGGCCCTCTACTTCCATCTGTGCTGTGGTGGGCTCTTTCGGAACCT 480
Qy 478 TCCTGGTCAATGATGCTGATGATACCAAGATGAAGACTGCGCAACCAATCTTACA 537
Db 481 TCCTGGTCAATGATGCTGATGATACCAAGATGAAGACTGCGCAACCAATCTTACA 540

QY 538 TTTTCAACCTTGCTCTGGCAGATGCTTAGCCACAGTACCTGCCCCTTCCAGAGTGGA 597
Db 541 TTTTCAACCTTGCTCTGGCAGATGCCCTTAGCCACAGTACCTGCCCCTTCCAGAGTGGA 600
QY 598 ATTACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGGCAAGATAGTGATCTCCATAG 657
Db 601 ATTACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGGCAAGATAGTGATCTCCATAG 660
QY 658 ATTACTATAAATGTTTCCACAGATATTCAACCTCTGCAACCATGAGTGTGATCGATACA 717
Db 661 ATTACTATAAATGTTTCCACAGATATTCAACCTCTGCAACCATGAGTGTGATCGATACA 720
QY 718 TTGCGAGTCTGCCACCTGTCAAGGCCTTAGATTTCCGTACTCCCGAAATGCCAAATTA 777
Db 721 TTGCGAGTCTGCCACCTGTCAAGGCCTTAGATTTCCGTACTCCCGAAATGCCAAATTA 780
QY 778 TCAATGTCGTGCAACTGGATCCTCTCTTCAGCCATTGGTCTTCTCTGTAATGTTTCATGGCTA 837
Db 781 TCAATGTCGTGCAACTGGATCCTCTCTTCAGCCATTGGTCTTCTCTGTAATGTTTCATGGCTA 840
QY 838 CAAACAAATACAGGCAAGGTTCCATAGATTGTACACTAACATCTCTCATCCAACTGGT 897
Db 841 CAAACAAATACAGGCAAGGTTCCATAGATTGTACACTAACATCTCTCATCCAACTGGT 900
QY 898 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTGCTCA 957
Db 901 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTGCTCA 960
QY 958 TCATTACCGTGTGCTATGAGCATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1017
Db 961 TCATTACCGTGTGCTATGAGCATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1020
QY 1018 GCTCCAAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGTGCTGTGGTGGTG 1077
Db 1021 GCTCCAAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGTGCTGTGGTGGTG 1080
QY 1078 CTGTGTTTCATGCTGCTGCTGCTGCCATCCCATTCACATTTACGTCATCATTAAGGCTTGGTTA 1137
Db 1081 CTGTGTTTCATGCTGCTGCTGCTGCCATCCCATTCACATTTACGTCATCATTAAGGCTTGGTTA 1140
QY 1138 CAATCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1197
Db 1141 CAATCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1200
QY 1198 CAAACAGTGCCTCAACCCAGTCTTTATGCAATTTCTGATGAAACATTCAAACGATGCT 1257
Db 1201 CAAACAGTGCCTCAACCCAGTCTTTATGCAATTTCTGATGAAACATTCAAACGATGCT 1260
QY 1258 TCAGAGAGTTCGTATCCCAACCTCTTCCAAATTCAGCAACAAACCTCCACTCCGAATTC 1317
Db 1261 TCAGAGAGTTCGTATCCCAACCTCTTCCAAATTCAGCAACAAACCTCCACTCCGAATTC 1320
QY 1318 GTCAGAACACTAGAGACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCAGC 1377
Db 1321 GTCAGAACACTAGAGACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCAGC 1380
QY 1378 TAGAAATCTGGAAGCAGAAAATGCTCCGTTGGTCCCTTAAACAGGTCATGCCATCCGAC 1437
Db 1381 TAGAAATCTGGAAGCAGAAAATGCTCCGTTGGTCCCTTAAACAGGTCATGCCATCCGAC 1440
QY 1438 CTTCCAGAGCTTAGAAGCCACCATGTATGTGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1497
Db 1441 CTTCCAGAGCTTAGAAGCCACCATGTATGTGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1500
QY 1498 AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCTCG 1557
Db 1501 AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCTCG 1560
QY 1558 CCACTCTGCTGCAATTTAGAGGACAGCCAAAGTAAAGTGAAGGACATTTGGNAGGAAG 1617
Db 1561 CCACTCTGCTGCAATTTAGAGGACAGCCAAAGTAAAGTGAAGGACATTTGGNAGGAAG 1620

QY 1618 GAATATACCACACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
Db 1621 GAATATACCACACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
QY 1678 GTGGTATGTGAATTTGAAGTCATCAATAAAGGTGACCCCTCTCTGCTGTAGATTTTATTTT 1737
Db 1681 GTGGTATGTGAATTTGAAGTCATCAATAAAGGTGACCCCTCTCTGCTGTAGATTTTATTTT 1740
QY 1738 CAAACAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTGTTAAAGTTCAACCGTAGTA 1797
Db 1741 CAAACAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTGTTAAAGTTCAACCGTAGTA 1800
QY 1798 ACACATAAAGTAAATGTCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTT 1857
Db 1801 ACACATAAAGTAAATGTCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTT 1860
QY 1858 TAGTGTTTTTCGAAGGGAATGAATCANTATTTCTATTTTAGACTTTTAACTTTCAACTTAA 1917
Db 1861 TAGTGTTTTTCGAAGGGAATGAATCANTATTTCTATTTTAGACTTTTAACTTTCAACTTAA 1920
QY 1918 AATTAGCATCTGGCTAAGGCATATTTTACCTCCATTTCTTGGTTTTGTATTTGTTTAAA 1977
Db 1921 AATTAGCATCTGGCTAAGGCATATTTTACCTCCATTTCTTGGTTTTGTATTTGTTTAAA 1980
QY 1978 AAAATAAACATCTCTTTTCACTAGCTCCATAATTCGAAGGGAAGAGATTAGCATGAAAGG 2037
Db 1981 AAAATAAACATCTCTTTTCACTAGCTCCATAATTCGAAGGGAAGAGATTAGCATGAAAGG 2040
QY 2038 TAATCTGAAACACAGTCATGTCTCANCTGTAGAAAGGTTGATCTCATGCACTNCAATA 2097
Db 2041 TAATCTGAAACACAGTCATGTCTCANCTGTAGAAAGGTTGATCTCATGCACTNCAATA 2100
QY 2098 CTTTCAAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGCTTCTCTCG 2157
Db 2101 CTTTCAAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGCTTCTCTCG 2160
QY 2158 AATTC 2162
Db 2161 AATTC 2165

RESULT 10

US-10-080-917-12
; Sequence 12, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2149
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-12

Query Match 97.5%; Score 2108.8; DB 5; Length 2149;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 9; Indels 2; Gaps 2;
QY 9 GGCCTATAGCAGGAGGAGATGTGATGCTCAGTCCGTCCTCCCTCCGCTGAGCGTCCCTC 68
Db 6 GGCCTATAGCAGGAGGAGATGTGATGCTCAGTCCGTCCTCCCTCCGCTGAGCGTCCCTC 65
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAG 128

[illegible]

RESULT 11

US-10-477-714-33

US 10 477 141 : Sequence 33. Application US/10477714

; sequence 33, Application 32/13
: Publication No. US20050033018A1; PUBLICATION NO. 0320
: GENERAL INFORMATION:

APPLICANT: [A]. Preeti G.: WARREN. Bridget A.:


```
; APPLICANT: XU, Yuming; DUGGAN, Brendan M.;
; APPLICANT: HONCHELL, Cynthia D.; KALLICK, Deborah A.;
; APPLICANT: BAUGHN, Mariyah R.; TANG, Y.Tom;
; APPLICANT: YUE, Henry; BANDMAN, Olga; Shanya D.;
; APPLICANT: JONES, Karen Anne; BECHA, Shanya D.;
; APPLICANT: TRAN, Uyen K.; AU-YOUNG, Janice K.;
; APPLICANT: GRIFFIN, Jennifer A.; ZEBARJADIAN, Yeganeh;
; APPLICANT: LEE, Ernestine A.; ELLIOTT, Vicki S.;
; APPLICANT: THANGAVELU, Kavitha; RAMKUMAR, Jayalaxmi;
; APPLICANT: LU, Yan; HAPALIA, April J.A.;
; APPLICANT: CHAWLA, Narinder K.; ISON, Craig H.
; APPLICANT: THORNTON, Michael B.; SWARNAKAR, Anita;
; APPLICANT: YANG, Junming; RICHARDSON, Thomas W.;
; APPLICANT: EMERLING, Brooke M.; YAO, Monique G.;
; APPLICANT: COCKS, Benjamin G.; SANJANWALA, Bharati;
; APPLICANT: MASON, Patricia M.; GANDHI, Ameena R.;
; APPLICANT: LI, Joana X.; FORSYTHE, Ian J.;
; APPLICANT: GURURAJAN, Rajagopal; GIETZEN, Kimberly J.
; TITLE OF INVENTION: RECEPTORS AND MEMBRANE-ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0992 USN
; CURRENT APPLICATION NUMBER: US/10/477,714
; CURRENT FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: PCT/US02/15899
; PRIOR FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/292,197
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/297,012
; PRIOR FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 60/300,582
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/300,495
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/301,992
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/340,542
; PRIOR FILING DATE: 2001-12-14
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PERL Program
; SEQ ID NO 33
; LENGTH: 2279
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; FEATURE:
; OTHER INFORMATION: Incyte ID No: 7580043CB1
; US-10-477-714-33

Query Match 97.0%; Score 2097.8; DB 8; Length 2279;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 9; Indels 3; Gaps 3;

QY 9 GCGTATAGCGAGGAGATGTGATGCTCAGTCGGTCCCGCTCGCGCTGAGCGTCTC 68
DB 1 GCGTATAGCGAGGAGATGTGATGCTCAGTCGGTCCCGCTCGCGCTGAGCGTCTC 60
QY 69 TCTGTCTCAGCAGGAGCTGTTCTCTAAGAAACACGACGAGCTGTGGCAGCGGGAAG 128
DB 61 TCTGTCTCAGCAGGAGCTGTTCTCTAAGAAACACGACGAGCTGTGGCAGCGGGAAG 120
QY 129 GAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAG 188
DB 121 GAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAG 180
QY 189 GGTGCCCGCGCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 248
DB 181 GGTGCCCGCGCGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 240
QY 249 TGCACGTGATGCTTGGCGTACTCAAGTCTCCAGACCCAGCGCGGTTCTCGGTC 308
DB 241 TGCACGTGATGCTTGGCGTACTCAAGTCTCCAGACCCAGCGCGGTTCTCGGTC 300
QY 309 AACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGACCGCAATCTG 368
DB 1381 GAAAGCAGAAACTGCTCCGTTGCTTAAACAGGGTCTCATGCCATTCGACCTTCAACCAAGC 1440
```

1449 TTAGAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAAAT 1508
1441 TTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAAAT 1500
1509 CTCTAGGAAAGTGTCTACTTTTAAAGTGCATCAACCTCTTTTCTCTCTGGCCACTCTGCTC 1568
1501 CTCTAGGAAAGTGTCTCTTTTAAAGTGCATCAACCTCTTTTCTCTCTGGCCACTCTGCTC 1560
1569 TGCATATTAGAGGAGCAGCCAAAGTAAGTGGAGCATTTGGAGGAAGAAATATACCA 1628
1561 TGCATATTAGAGGAGCAGCCAAAGTAAGTGGAGCATTTGGAGGAAGAAATATACCA - 1619
1629 ACCGAGAGTCCAGTTTGTGCAAGACACCAGTGGACCAAAACCCATCTGTGTATGTGA 1688
1620 ACCGAGAGTCCAGTTTGTGCAAGACACCAGTGGACCAAAACCCATCTGTGTATGTGA 1679
1689 ATTGAAGTGCATCAATAAAGGTGACCTTTCTGTCTGTAAAGATTTTATTTTCAAGCAAAAT 1748
1680 ATTGAAGTGCATCAATAAAGGTGACCTTTCTGTCTGTAAAGATTTTATTTTCAAGCAAAAT 1739
1749 TTATGACCTCAACAAAGAGAACCATCTTTTGTAAAGTTCACCGTAGTAACACATAAAGT 1808
1740 TTATGACCTCAACAAAGAGAACCATCTTTTGTAAAGTTCACCGTAGTAACACATAAAGT 1799
1809 AATGTGTACCTCTGATCAAGGACCTTGAATGGAAGTCCGAGTCTTTTGTAGTGTGTTG 1868
1800 AATGTGTACCTCTGATCAAGGACCTTGAATGGAAGTCCGAGTCTTTTGTAGTGTGTTG - TTTTG 1858
1869 CAAGGGAATGAATCAATTTTCTATTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTT 1928
1859 CAAGGGAATGAATCAATTTTCTATTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTT 1918
1929 GGCTAAGGACATCAATTTTCACTCAATTTTCTGTTTGTATTTGTTTAAAAAATAACAT 1988
1919 GGCTAAGGACATCAATTTTCACTCAATTTTCTGTTTGTATTTGTTTAAAAAATAACAT 1977
1989 CTCTTTTCACTTAGCTCCATTAATTCGAAGGAGAGATTTAGCATGAAAGGTAATCTGAAC 2048
1978 CTCTTTTCACTTAGCTCCATTAATTCGAAGGAGAGATTTAGCATGAAAGGTAATCTGAAC 2037
2049 ACAGTCATGTCTCANTGTAGAAAGTTGATTTCTCATGCACTNCAATACTTCCAAAGAG 2108
2038 ACAGTCATGTCTAGCTGTAGAAAGTTGATTTCTCATGCACTGCANATACTTCCAAAGAG 2097
2109 TCATCATGGGGATTTTTCATTTTAGCTTTTCAAGTGTGTTGTTTCT 2155
2098 TCATCATGGGGATTTTTCATTTTAGCTTTTCAAGTGTGTTGTTTCT 2144

RESULT 12
US-10-080-917-13
; Sequence 13, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 1473
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-13

Query Match 62.5%; Score 1351.8; DB 5; Length 1473;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1359; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 17 GCAGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTCTCTGTCTC 76
Db 1 GCAGAGGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTCTCTGTCTC 60
QY 77 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAGAAAGCGGC 136
Db 61 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAGAAAGCGGC 120
QY 137 TGAAGCGCTTGGAAACCCGAAAAGTCTCGGTGTCTTGGGTACTCTCGCAAGCGGTGCCCCG 196
Db 121 TGAAGCGCTTGGAAACCCGAAAAGTCTCGGTGTCTTGGGTACTCTCGCAAGCGGTGCCCCG 180
QY 197 CCGGCGCTCAGTACCATGGACAGCAGCTGCTGCCCGCCAGAACCGCAGCAATTTGCACTGA 256
Db 181 CCGGCGCTCAGTACCATGGACAGCAGCTGCTGCCCGCCAGAACCGCAGCAATTTGCACTGA 240
QY 257 TGCCTTTGGCGTACTCAAGTTGCTCCCGCAGCACCCAGCGCCCGGTTCTTGGGTCAACTTGTG 316
Db 241 TGCCTTTGGCGTACTCAAGTTGCTCCCGCAGCACCCAGCGCCCGGTTCTTGGGTCAACTTGTG 300
QY 317 CCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCACCAATCTGGGCGGGAG 376
Db 301 CCACTTAGATGGCGACCTGTCCGACCCATGCGGTCCGAAACCGCACCAATCTGGGCGGGAG 360
QY 377 AGACAGCTGTGCGCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAGCATCATGGC 436
Db 361 AGACAGCTGTGCGCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAGCATCATGGC 420
QY 437 CCTCTACTCATCGTGTGGGTGCTTTCGGAACCTTCTGGAACCTTCTGCTCATGTATGTGAT 496
Db 421 CCTCTACTCATCGTGTGGGTGCTTTCGGAACCTTCTGGAACCTTCTGCTCATGTATGTGAT 480
QY 497 TGTTCAGATACCAAGATGAAGACTGCCAACAACTCTACATTTTCAACCTTGTCTGTGC 556
Db 481 TGTTCAGATACCAAGATGAAGACTGCCAACAACTCTACATTTTCAACCTTGTCTGTGC 540
QY 557 AGATGCTTAGCAGCAGTACCTTCCGCTTCCAGAGTGTGAATTTACCTAATGGAAACATG 616
Db 541 AGATGCTTAGCAGCAGTACCTTCCGCTTCCAGAGTGTGAATTTACCTAATGGAAACATG 600
QY 617 GCCATTTGGAACCATCTTTCGAAGATAGTGTCTCCATAGATTTACTATTAACATGTTTAC 676
Db 601 GCCATTTGGAACCATCTTTCGAAGATAGTGTCTCCATAGATTTACTATTAACATGTTTAC 660
QY 677 CAGCATATTCACCCCTCTGCACCATGATGTTGATCGATACATTTGCCACCCCTGT 736
Db 661 CAGCATATTCACCCCTCTGCACCATGATGTTGATCGATACATTTGCCACCCCTGT 720
QY 737 CAAGGCTTAGATTTCCGTAATCTCCGAAATGCAAAATTTATCAATGCTTGCACCTGGAT 796
Db 721 CAAGGCTTAGATTTCCGTAATCTCCGAAATGCAAAATTTATCAATGCTTGCACCTGGAT 780
QY 797 CCTCTCTTCCAGCCATTTGCTTCTCTGTAATGTTTCATGCTTACCAAAATAACAGGCAAG 856
Db 781 CCTCTCTTCCAGCCATTTGCTTCTCTGTAATGTTTCATGCTTACCAAAATAACAGGCAAG 840
QY 857 TTCCATAGATTTGACACTAAACATTTCTCTCATCCAACTGGTACTTGGGAAACCTCTGTGAA 916
Db 841 TTCCATAGATTTGACACTAAACATTTCTCTCATCCAACTGGTACTTGGGAAACCTCTGTGAA 900
QY 917 GATCTGTGTTTTCACTTTCGCTTCAATTTGCCAGTGTCTATTTACCTGCTGTATGG 976
Db 901 GATCTGTGTTTTCACTTTCGCTTCAATTTGCCAGTGTCTATTTACCTGCTGTATGG 960
QY 977 ACTGATGATCTTGGCTCAAGAGTGTCCGCACTGCTCTCTGGCTCCAAAGAAAGGACAG 1036
Db 961 ACTGATGATCTTGGCTCAAGAGTGTCCGCACTGCTCTCTGGCTCCAAAGAAAGGACAG 1020
QY 1037 GAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGTGTGTTTCATCGTCTGCTG 1096

; Sequence 544, Application US/09826509
; Publication No. US20030204073A1
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. US20030204073A1-Endogenous, Constitutively Activated Known G
; TITLE OF INVENTION: Protein-Coupled Receptors
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 544
; LENGTH: 1203
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-826-509-544

Query Match 55.4%; Score 1198.2; DB 3; Length 1203;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1200; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 213 ATGACAGCAGCGCTGCCCGCCACGAAACGCGAGCAATTTGCACTGATGCTTGGCGTACTCA 272
Db 1 ATGACAGCAGCGCTGCCCGCCACGAAACGCGAGCAATTTGCACTGATGCTTGGCGTACTCA 60

Qy 273 AGTTGCTCCCGAGCAGCCAGCCCGGTTCTGGGTCACTTGTCCCTAGATGGCAAC 332
Db 61 AGTTGCTCCCGAGCAGCCAGCCCGGTTCTGGGTCACTTGTCCCTAGATGGCAAC 120

Qy 333 CTGTCCCGACCATGCGGTCCGAAACCGCACCAATCTGGCGGGAGAGACAGCGCTGTGCCCT 392
Db 121 CTGTCCCGACCATGCGGTCCGAAACCGCACCAATCTGGCGGGAGAGACAGCGCTGTGCCCT 180

Qy 393 CCGACCGGCACTGCCCTCCATGATCAGCGGCATACAGATCATGCGCCCTCTACTCCATCGTG 452
Db 181 CCGACCGGCACTGCCCTCCATGATCAGCGGCATACAGATCATGCGCCCTCTACTCCATCGTG 240

Qy 453 TCGTGTGGGGCTCTTCGGAACCTTCTGCTCATGTATGTGATGTGTCAGATACACCAAG 512
Db 241 TCGTGTGGGGCTCTTCGGAACCTTCTGCTCATGTATGTGATGTGTCAGATACACCAAG 300

Qy 513 ATGAAGACTGCGCACCAACATCTACATTTTCAACCTTGTCTGCGAGATGCCCTTAGCCACC 572
Db 301 ATGAAGACTGCGCACCAACATCTACATTTTCAACCTTGTCTGCGAGATGCCCTTAGCCACC 360

Qy 573 AGTACCTCGCCCTTCCAGAGTGTGAATTTACCTAATGGGAAACATGGCCATTTGGAAACCATC 632
Db 361 AGTACCTCGCCCTTCCAGAGTGTGAATTTACCTAATGGGAAACATGGCCATTTGGAAACCATC 420

Qy 633 CTTTGCAGATAGTATCTTCATAGATTTACTATAACATGTTTCCAGCAGATTTTCAACCTC 692
Db 421 CTTTGCAGATAGTATCTTCATAGATTTACTATAACATGTTTCCAGCAGATTTTCAACCTC 480

Qy 693 TGCACCATGAGTGTGATGCGATACATTCAGTCTGCCACCTGTCAAGGCCCTTAGATTTTC 752
Db 481 TGCACCATGAGTGTGATGCGATACATTCAGTCTGCCACCTGTCAAGGCCCTTAGATTTTC 540

Qy 753 CGTACTCCCGAAATGCCAAATTTATCAATGTCTGCAACTGGATCTCTCTTCAGCCATT 812
Db 541 CGTACTCCCGAAATGCCAAATTTATCAATGTCTGCAACTGGATCTCTCTTCAGCCATT 600

Qy 813 GGTCTTCTGTAAATGTTTCATGGCTACAAACAAATACAGGCAAGGTTTCCATAGATTGACA 872
Db 601 GGTCTTCTGTAAATGTTTCATGGCTACAAACAAATACAGGCAAGGTTTCCATAGATTGACA 660

Qy 873 CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCATC 932
Db 1 ATGACAGCAGCGCTGCCCGCCACGAAACGCGAGCAATTTGCACTGATGCTTGGCGTACTCA 60

Db 661 CTAACATTTCTCATCCAAACCTGGTACTGGGAAAACTCGTGAAGATCTCGTGTTCATC 720
Qy 933 TTGCGCTTCATTATGCCAGTGCTCATCATTTACCGTGTGCTATGAGCTGATGATCTTCGCG 992
Db 721 TTGCGCTTCATTATGCCAGTGCTCATCATTTACCGTGTGCTATGAGCTGATGATCTTCGCG 780
Qy 993 CTCAGAGTGTCCGCAATGCTCTCTGGCTCCAAAGAAAAGGACAGGAATCTTCGAAGATC 1052
Db 781 CTCAGAGTGTCCGCAATGCTCTCTGGCTCCAAAGAAAAGGACAGGAATCTTCGAAGATC 840
Qy 1053 ACCAGATGCTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1112
Db 841 AAGAGGATGCTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 900
Qy 1113 TAGCTCATCATTAAGCCCTTGGTTACAATCCAGAAACTACGTTCCAGACTGTTTCTTGG 1172
Db 901 TAGCTCATCATTAAGCCCTTGGTTACAATCCAGAAACTACGTTCCAGACTGTTTCTTGG 960
Qy 1173 CACTTCTGCATTTGCTCTTAGGTTACAAAACAGCTGCTCAACCCAGTCCCTTTATGCATTT 1232
Db 961 CACTTCTGCATTTGCTCTTAGGTTACAAAACAGCTGCTCAACCCAGTCCCTTTATGCATTT 1020
Qy 1233 CTGGATGAAACCTTCAAAACGATGCTTCAGAGAGTCTGTATCCCAACCTCTTCCAACTT 1292
Db 1021 CTGGATGAAACCTTCAAAACGATGCTTCAGAGAGTCTGTATCCCAACCTCTTCCAACTT 1080
Qy 1293 GAGCAACAAACTCCCACTCGAATTCGTGCAACACATAGAGACCAACCCCTCCACGGCCAA 1352
Db 1081 GAGCAACAAACTCCCACTCGAATTCGTGCAACACATAGAGACCAACCCCTCCACGGCCAA 1140
Qy 1353 ACAGTGATAGAACTAATCATCATGCTAGAGAAATCTGGAAGCAGAAACTGCTCGTTCGCC 1412
Db 1141 ACAGTGATAGAACTAATCATCATGCTAGAGAAATCTGGAAGCAGAAACTGCTCGTTCGCC 1200

Qy 1413 TAA 1415
Db 1201 TAA 1203

RESULT 15
US-10-925-095-544
; Sequence 544, Application US/10925095
; Publication No. US20050019840A1
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: Non-Endogenous, Constitutively Activated Known G
; TITLE OF INVENTION: Protein-Coupled Receptors
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/10/925,095
; CURRENT FILING DATE: 2004-08-24
; PRIOR APPLICATION NUMBER: US/09/826,509
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 544
; LENGTH: 1203
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-925-095-544

Query Match 55.4%; Score 1198.2; DB 8; Length 1203;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1200; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 213 ATGACAGCAGCGCTGCCCGCCACGAAACGCGAGCAATTTGCACTGATGCTTGGCGTACTCA 272
Db 1 ATGACAGCAGCGCTGCCCGCCACGAAACGCGAGCAATTTGCACTGATGCTTGGCGTACTCA 60

Qy	273	AGTTGCTCCCGACCCAGCCCGGTTCTGGTCAACTTCTCCACTTAGATGCCAC	332
Db	61	AGTTGCTCCCGACCCAGCCCGGTTCTGGTCAACTTCTCCACTTAGATGCCAC	120
Qy	333	CTGTCCGACCCATGCGGTCCGAACCGCACCAATCTGGGCGGAGAGACAGCCTGTGCCCT	392
Db	121	CTGTCCGACCCATGCGGTCCGAACCGCACCACTGGGCGGAGAGACAGCCTGTGCCCT	180
Qy	393	CCGACCGGAGTCCCTCCATGATCAGGCCCATCAGCATCATGGCCCTTACTCCATCGTG	452
Db	181	CCGACCGGAGTCCCTCCATGATCAGGCCCATCAGCATCATGGCCCTTACTCCATCGTG	240
Qy	453	TGCGTGGTGGGCTCTTCGGAACCTTCCTGGTCATGTATGTTCAGATACACCAAG	512
Db	241	TGCGTGGTGGGCTCTTCGGAACCTTCCTGGTCATGTATGTTCAGATACACCAAG	300
Qy	513	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCCTTAGCCACC	572
Db	301	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCCTTAGCCACC	360
Qy	573	AGTACCCTCCCTTCAGAGTGTGAATTAACCTAATGGGAACATGGCCATTTGGAAACCATC	632
Db	361	AGTACCCTCCCTTCAGAGTGTGAATTAACCTAATGGGAACATGGCCATTTGGAAACCATC	420
Qy	633	CTTTGCAAGATAGTGTCTCCATAGATTACTATAACATGTTTACACAGCATATTCACCCCTC	692
Db	421	CTTTGCAAGATAGTGTCTCCATAGATTACTATAACATGTTTACACAGCATATTCACCCCTC	480
Qy	693	TGCACCATGATGTTGATCGATACATTTGCAGTCTGCCACCCTGTCAAGGCCCTTAGATTTC	752
Db	481	TGCACCATGATGTTGATCGATACATTTGCAGTCTGCCACCCTGTCAAGGCCCTTAGATTTC	540
Qy	753	CGTACTCCCGAAATGCCAAATTTATCAATGTCTGCAACTGGATCCTCTCTTCAGCCATT	812
Db	541	CGTACTCCCGAAATGCCAAATTTATCAATGTCTGCAACTGGATCCTCTCTTCAGCCATT	600
Qy	813	GGTCTTCCTGTATGTTTCAATGGCTACAAACAAATACAGCAAGTTCCATAGATTGTACA	872
Db	601	GGTCTTCCTGTATGTTTCAATGGCTACAAACAAATACAGCAAGTTCCATAGATTGTACA	660
Qy	873	CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATC	932
Db	661	CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATC	720
Qy	933	TTGCGCTTCATTATGCCAGTGCTCATTTACCGTGTGCTATGGAATGATGATCTTGCGC	992
Db	721	TTGCGCTTCATTATGCCAGTGCTCATTTACCGTGTGCTATGGAATGATGATCTTGCGC	780
Qy	993	CTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	1052
Db	781	CTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	840
Qy	1053	ACCAGGATGGTGTGGTGGTGGTGTTCATCGTCTGTGGACTCCCATTCACATT	1112
Db	841	ACCAGGATGGTGTGGTGGTGGTGTTCATCGTCTGTGGACTCCCATTCACATT	900
Qy	1113	TACGTTCATCAATAAGCCTTGGTTACAATCCCAAGAACTACGTTCCAGACTGTTTCTTGG	1172
Db	901	TACGTTCATCAATAAGCCTTGGTTACAATCCCAAGAACTACGTTCCAGACTGTTTCTTGG	960
Qy	1173	CACCTTCGCATTTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCCCTTATGCAATT	1232
Db	961	CACCTTCGCATTTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCCCTTATGCAATT	1020
Qy	1233	CTGGATGAAACCTTCAACAGATGTTTCTGAGAGTCTGTATCCCAACCTCTTCCAAACATT	1292
Db	1021	CTGGATGAAACCTTCAACAGATGTTTCTGAGAGTCTGTATCCCAACCTCTTCCAAACATT	1080
Qy	1293	GAGCAACAAACCTTCCATCGAATTCGTTCAGAACACTAGAGACCAACCCCTCCACGGCAAT	1352
Db	1081	GAGCAACAAACCTTCCATCGAATTCGTTCAGAACACTAGAGACCAACCCCTCCACGGCAAT	1140

Qy	1353	ACAGTGGATAGAACTAATCATCATCAGCTAGAAAATCTGGAAGCAGAAAATCTGCTCCGTTGCC	1412
Db	1141	ACAGTGGATAGAACTAATCATCATCAGCTAGAAAATCTGGAAGCAGAAAATCTGCTCCGTTGCC	1200
Qy	1413	TAA 1415	
Db	1201	TAA 1203	

Search completed: January 9, 2006, 15:16:43
Job time : 1713.52 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:50:21 ; Search time 309.514 Seconds
(without alignments)
5092.624 Million cell updates/sec

Title: US-09-883-839-1-T365
Perfect score: 2162
Sequence: 1 ggaattccgctataggcag.....gtggtttgtctcgaattc 2162

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues

Total number of hits satisfying chosen parameters: 9275266

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New:
1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB_seq.*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB_seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB_seq.*
4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB_seq.*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB_seq.*
6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB_seq.*
7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB_seq.*
8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB_seq2.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB_seq3.*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB_seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2158.4	99.8	2162	7	US-11-127-877-18
2	455	21.0	1423	7	US-11-136-527-2066
3	362.6	16.8	2955	7	US-11-136-527-2954
4	233	10.8	8372	7	US-11-136-527-684
5	197.8	9.1	2116	7	US-11-136-527-3819
6	194.6	9.0	1685	6	US-10-750-185-36071
7	194.6	9.0	1685	6	US-10-750-623-36071
8	187.6	8.7	1238	6	US-10-995-561-321
9	187.6	8.7	1498	6	US-10-995-561-320
10	187.6	8.7	86131	6	US-10-995-561-13298
11	177	8.2	3635	7	US-11-136-527-2101
12	172.6	8.0	1384	7	US-11-136-527-2159
13	158.8	7.3	1560	7	US-11-136-527-3742
14	158.8	7.3	1865	6	US-10-533-355-9
15	151.8	7.0	856	6	US-10-750-185-62128
16	151.8	7.0	856	6	US-10-750-623-62128
17	141.4	6.5	1224	6	US-10-750-185-40492
18	141.4	6.5	1224	6	US-10-750-623-40492
19	125.6	5.8	600	7	US-11-136-527-6162
20	112.4	5.2	3985	7	US-11-136-527-3404
21	93.4	4.3	3219	7	US-11-136-527-4059
22	93.4	4.3	3295	7	US-11-136-527-3736
23	92.6	4.3	706	6	US-10-750-185-32790

ALIGNMENTS

RESULT 1

US-11-127-877-18
Sequence 18, Application US/11127877
Publication No. US20050287565A1
GENERAL INFORMATION:
APPLICANT: Hoffmann, Pascal G.
APPLICANT: Spittaels, Koenraad F. F.
APPLICANT: Laenen, Wendy
TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting Amyloid-Beta Protein Production
FILE REFERENCE: P27,800-B USA
CURRENT APPLICATION NUMBER: US/11/127,877
CURRENT FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: 60/570,352
PRIOR FILING DATE: 2004-05-12
PRIOR APPLICATION NUMBER: 60/603,948
PRIOR FILING DATE: 2004-08-24
NUMBER OF SEQ ID NOS: 590
SOFTWARE: PatentIn version 3.3
SEQ ID NO 18
LENGTH: 2162
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (2063)..(2063)
OTHER INFORMATION: n is a, c, g, or t
FEATURE:
NAME/KEY: misc feature
LOCATION: (2091)..(2091)
OTHER INFORMATION: n is a, c, g, or t
US-11-127-877-18

Query Match 99.8%; Score 2158.4; DB 7; Length 2162;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2162; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAGAGGAGATGTCAGATGTCAGTCCGTCCTCCGCTCGA 60

Db 1 GGAATTCGGCTATAGGCAGAGGAGATGTCAGATGTCAGTCCGTCCTCCGCTCGA 60

Qy 61 CGCTCCTCTGTCCTCAGCCAGGACTGGTTCTCTAGAACACAGCAGGAGCTGTGGCAGC 120

Db 61 CGCTCCTCTGTCCTCAGCCAGGACTGGTTCTCTAGAACACAGCAGGAGCTGTGGCAGC 120

Sequence 32790, A
Sequence 3841, Ap
Sequence 4061, Ap
Sequence 3525, Ap
Sequence 3, Appli
Sequence 27, Appl
Sequence 3805, Ap
Sequence 9095, Ap
Sequence 9109, Ap
Sequence 48688, A
Sequence 3843, Ap
Sequence 20212, A
Sequence 20212, A
Sequence 50101, A
Sequence 2638, Ap
Sequence 1, Appli
Sequence 28, Appl
Sequence 196, App
Sequence 199, App
Sequence 197, App
Sequence 195, App

US-10-750-623-32790
US-11-136-527-3841
US-11-136-527-4061
US-11-136-527-3525
US-11-068-686-3
US-11-127-877-27
US-11-136-527-3805
US-10-995-561-9095
US-10-995-561-9109
US-10-995-561-48688
US-11-136-527-3843
US-10-750-185-20212
US-10-750-623-20212
US-10-750-185-50101
US-10-750-623-50101
US-11-136-527-2638
US-10-876-787-1
US-11-127-877-28
US-10-995-561-196
US-10-995-561-199
US-10-995-561-197
US-10-995-561-195

706
4.3
92.6
4.1
1450
4.0
1339
4.0
2580
4.0
1915
3.8
1945
3.8
2011
3.8
201
3.8
201
3.8
201
3.8
201
3.8
2156
3.8
600
3.8
600
3.8
810
3.8
810
3.8
1116
3.6
2338
3.5
2347
3.5
2214
3.5
2338
3.5
2363
3.5
2422
3.5
2422
3.5

C 24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45

QY 121 GCGAAGAGCGGCTGAGGCGCTTGGAAACCGAAAAGTCTCGTGCTCTGGCTACCT 180
Db 121 GGGAAAGAGAGCGGCTGAGGCGCTTGGAAACCGAAAAGTCTCGTGCTCTGGCTACCT 180
QY 181 CGCACAGCGGTGCCCGCGCGCTGAGTACCATGACAGCAGCGTGCCTCCACGAAAG 240
Db 181 CGCACAGCGGTGCCCGCGCGCTGAGTACCATGACAGCAGCGTGCCTCCACGAAAG 240
QY 241 CAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCCAGCCCGGTT 300
Db 241 CAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCCAGCCCGGTT 300
QY 301 CTGGGTCAACTTGTCCCACTTAGATGGCAACTGTCCGACCATCGTCCGAAACCGCA 360
Db 301 CTGGGTCAACTTGTCCCACTTAGATGGCAACTGTCCGACCATCGTCCGAAACCGCA 360
QY 361 CCAATCTGGCGGAGAGAGAGCAGCTGTGCGCTCCGACCGGCGAGTCCCTCCATGATCA 420
Db 361 CCAATCTGGCGGAGAGAGAGCAGCTGTGCGCTCCGACCGGCGAGTCCCTCCATGATCA 420
QY 421 CAGTACGATGAGCGCTTACTCCATCGTGTGCGTGGGCTCTTGGGAACTTCC 480
Db 421 CAGTACGATGAGCGCTTACTCCATCGTGTGCGTGGGCTCTTGGGAACTTCC 480
QY 481 TGGTCACTGATGATGTTGTGAGATACCAAGATGAAGACTGCAACCAATCTCATTT 540
Db 481 TGGTCACTGATGATGTTGTGAGATACCAAGATGAAGACTGCAACCAATCTCATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCTGCGCTTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCTGCGCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATGATGATCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATGATGATCCATAGATT 660
QY 661 ACTATAACATGTTTACCAGCATATTCACCTCTGACCATGAGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTACCAGCATATTCACCTCTGACCATGAGTGTGATCGATACATTG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGCTACTCCCGAAATGCCAAATTTATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGCTACTCCCGAAATGCCAAATTTATCA 780
QY 781 ATGTCTGCAACTGGATCTCTTCAAGCATTTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
Db 781 ATGTCTGCAACTGGATCTCTTCAAGCATTTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
QY 841 CAAATACAGGCAAGGTTCCATAGATTGTACATAACATTCTCATCCAACCTGGTACT 900
Db 841 CAAATACAGGCAAGGTTCCATAGATTGTACATAACATTCTCATCCAACCTGGTACT 900
QY 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAFTATGCCAGTGTCTATCA 960
Db 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAFTATGCCAGTGTCTATCA 960
QY 961 TTACCGTGTCTATGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCGGCT 1020
Db 961 TTACCGTGTCTATGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGGTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGGTGGTGGTGGCTG 1080
QY 1081 TGTTCATCGTCTGCTGGACTCTCCCATTTACATTTTACATTTAAGCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGCTGGACTCTCCCATTTACATTTTACATTTAAGCCTTGGTTACAA 1140
QY 1141 TCCAGAAACTAGTTCAGAGTGTGTTTCTGGCACTTCTGCAATTTGCTAGGTTACAA 1200
Db 1141 TCCAGAAACTAGTTCAGAGTGTGTTTCTGGCACTTCTGCAATTTGCTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACCTTCAAACGATGCTTCA 1260

Db 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACCTTCAAACGATGCTTCA 1260
QY 1261 GAGAGTCTGTATCCCAACCTCTTCCAAATTTGAGCAACAAATCTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTCTGTATCCCAACCTCTTCCAAATTTGAGCAACAAATCTCCACTCGAATTCGTC 1320
QY 1321 AGAACATAGAGACCAACCTCCACGGCAATFACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACATAGAGACCAACCTCCACGGCAATFACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAAGCAGAAATGCTCGGTTGCCCTAAACAGGGTCTCATGCCATTTCCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAATGCTCGGTTGCCCTAAACAGGGTCTCATGCCATTTCCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCCATGATGTGGAAGAGGTTGCTTCAAGATGTGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCCATGATGTGGAAGAGGTTGCTTCAAGATGTGTAGGAGG 1500
QY 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTCAACCTCTTTCTCTCTGGCCA 1560
Db 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTCAACCTCTTTCTCTCTGGCCA 1560
QY 1561 CTCTCTCTGCACTTAGAGGAGCAGCCAAATAGTGGAGCATTTTGGAGGAAAGGAA 1620
Db 1561 CTCTCTCTGCACTTAGAGGAGCAGCCAAATAGTGGAGCATTTTGGAGGAAAGGAA 1620
QY 1621 TATACACACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
Db 1621 TATACACACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
QY 1681 GTATGTGAATTTGAACTCATATAAAGGTGACCTTCTGTCTGTAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATTTGAACTCATATAAAGGTGACCTTCTGTCTGTAGATTTTATTTCAA 1740
QY 1741 GCAATATTTTATGACCTCAACAAAGAGAACCATCTTTTGTAAAGTTTCAACCTAGTAA 1800
Db 1741 GCAATATTTTATGACCTCAACAAAGAGAACCATCTTTTGTAAAGTTTCAACCTAGTAA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTTATG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTTATG 1860
QY 1861 TGTTTTTGCAGGGGAATGAATCCATTTTCTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTTGCAGGGGAATGAATCCATTTTCTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCAFTTTTCACTCCATTTCTTGGTTTTGTATTTGTTTTAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCAFTTTTCACTCCATTTCTTGGTTTTGTATTTGTTTTAAAA 1980
QY 1981 AATAACATCTCTTTTCACTAGCTCATATTTGCAAGGAGAGATTTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCACTAGCTCATATTTGCAAGGAGAGATTTAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCACTGTCTCANCCTGTAGAAAGTTGATTTCTCATGCACTNCAATACTT 2100
Db 2041 TCTGAAACACAGTCACTGTCTCANCCTGTAGAAAGTTGATTTCTCATGCACTNCAATACTT 2100
QY 2101 CCAAGAGTCTATCATGGGGGATTTTTCATTTTCTTAGGCTTTTCTAGTGGTTTTGTTCTTGAAT 2160
Db 2101 CCAAGAGTCTATCATGGGGGATTTTTCATTTTCTTAGGCTTTTCTAGTGGTTTTGTTCTTGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

QY 964 CCGTGTGCTATGAGCTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 869 CTGTCTGTACAGCTCATGATTCGACGACTTCGTGGTGTCTGTCTGCTTTCAGGCTCCC 928
QY 1024 AAGAAAGGACAGGAATCTTGAAGGATCACCAGGATGCTGTGGTGGTGGTGGT 1083
Db 929 GGGAGAAGGACCGAACTCGCGGTATCACTCGACTGGTGTGGTGGTGGTGGTGTGT 988
QY 1084 TCATCGTCTGCTGGACTCCCATTCACATTTAGTCAATTAAGGCTTGGTTACATCC 1143
Db 989 TTGTGGGCTGTGGACGCTGTGACGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 1048
QY 1144 CAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTGAGTTTACAAACA 1203
Db 1049 CAGGTAGTGAAGTGCAGTTGCCATCTCGGCTTCTGACAGCCCTGGGCTATGTCAACA 1108
QY 1204 GCTGCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAGTCTTCAACGATCTTCAGAG 1263
Db 1109 GTTGTCTCAATCCATCTCTATGCTTTCTGATGAGAACTTCAAGGCTGCTTTAGAA 1168
QY 1264 AGTTCTGATCCCACTCTTCCAACTTTCAGCAATTTGAGCAACAACTCCACTCGAATTCG 1318
Db 1169 AGTTCTGCTGTGCTTCTATCCCTGACCCGGAGATGCAGGTTTCTGTATCGTGTGCG 1223

RESULT 4
US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-684

Query Match 10.8%; Score 233; DB 7; Length 8372;
Best Local Similarity 56.4%; Pred. No. 4.1e-60;
Matches 513; Conservative 0; Mismatches 315; Indels 81; Gaps 1;
QY 491 TGTGATTGTTCAGATACACCAAGATGAAGACTGCCACCACTACATTTTCAACCTTGC 550
Db 5100 TGTCTCTACAGGCACACCAAGATGAAGACAGCTACCAACATTTACATATTTAATCTGC 5159
QY 551 TCTGGCAGATGCTTACGACCACTGCTGCTGCTTCCAGAGTGAATTTACCTAATGG 610
Db 5160 ACTGGCTGATACCTGCTGTGTGTAACACTGCTGCTTCCAGGGCAGACATCCTACTGG 5219
QY 611 AACATGCCATTTGGAACTCCCTTTGCAAGATGATGATCTCCATAGATTACTATAACAT 670
Db 5220 CTTCCTGCCATTTGGGAATGCATCTGTGCAAGACTGTTCATTTGCTATCGACTACTACAACAT 5279
QY 671 GTTCACAGCATATTCACCTCTGACCACTGATGATGTTGATCGATACATTTGCAGTCTGCCA 730
Db 5280 GTTTACAGCACTTTTACTCTGACCGCCATGAGCGTAGACCGGTATGTGGCTATCTGCCA 5339
QY 731 CCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATGCTGCAAA 790
Db 5340 CCTATCCGTGCTTGTATGTTCCGAAATCCAGCAAGCCAGGCTGTTAATGTGGCCAT 5399
QY 791 CTGGATCTCTCTTCAGCAATTTGGTCTTCTGTGTAATGTTTCATGGCTTACAAACAAA- 845
Db 5400 ATGGGCCCTGGCTTCAGTGTGTTGCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5459

QY 846 ----- 845
Db 5460 AGATGAAGTTCAGTGGTGGTCTCTCTCCCTGACTCATTTAGTTTCCCATGGTTCCTGTG 5519
QY 846 -----TACAGCAAGTTTCCATAGATGTACATAACATTTCTCATCC 889
Db 5520 GTCCCTCTGACCCCATTTCTCTCTGCAGAGATCGAGTGCCTGTGGAGATCCCTGCCCC 5579
QY 890 AACCTGTACTGGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCC 949
Db 5580 TCAGGACTATTGGGGCCCTGTATTCCCATCTGCATCTCTCTTTTCTTCTCATCATCCC 5639
QY 950 AGTGTCTCATCATTTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGCAT 1009
Db 5640 TGTGCTGATCATCTCTGTCTGCTCAGCTCATGATTCGACACTTCGTGGTGTCCGTCT 5699
QY 1010 GCTCTCTGGCTCAAGAAAAAGGACAGGAATCTTCAAGAGATCAACAGGATGGTGTGGT 1069
Db 5700 GCTTTTCAGGCTCCCGGAGAGGACCGAAACCTCGCGGCTATCACTCGACTGTGTGGTGT 5759
QY 1070 GGTGTGCTGTGTTTCATGCTGTGGACTCCCATTCACATTTACGTCATCATATAAAGC 1129
Db 5760 AGTGTGCTGTGTTTGTGGGCTGTGGAACGCTGTGCAAGGCTGTGCTGTGCTGTGCTGT 5819
QY 1130 CTGTGTTACAAATCCCAAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATTGCTCT 1189
Db 5820 ACTGGGTGTTCAGCCAGGTAGTGAAGTTCAGTTCCTGCTGCTTCTGCAAGCCCT 5879
QY 1190 AGTTTACACAAACAGCTGCTCAACCCAGTCTCTTTATGATGATTTCTGGATGAAGTCAA 1249
Db 5880 GGGCTATGTCAACAGTGTCTCAATCCCATCTCTATGCTTCTCTGGATGAGAACTCAA 5939
QY 1250 AGCATGCTTCAGAGAGTTCGTATCCCACTTCCAACTTCCAACTTCCAACTTCCAACT 1309
Db 5940 GGCCTGCTTTAGAAAGTTCTGCTGTGCTTCATCCCTGCAACCGGAGATGACGTTTCTGA 5999
QY 1310 TCGAATTCG 1318
Db 6000 TCGTGTGCG 6008

RESULT 5
US-11-136-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3819

Query Match 9.1%; Score 197.8; DB 7; Length 2116;
Best Local Similarity 53.2%; Pred. No. 9.5e-50;
Matches 443; Conservative 0; Mismatches 387; Indels 3; Gaps 1;
QY 430 TCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCTCGGTCATGT 489
Db 504 TCAGTTTCACTACTCTGCTGTGGTGGGCTGTGGGCTGTGGGCTGTGGGCTGTGGGCT 563
QY 490 ATGTGATGTTCAGATACACCAAGATGAAGACTGCCAACCAATCTTACATTTTCAACCTTG 549

Db 564 ACCTCATCTCCGTACGCCAAGATGAAACCATCACCAACATTTACATCCTCAACCTGG 623
Qy 550 CTCTGGCAGATGCTTAGCCACACAGTACCTGCGCTTCCAGAGTGTGAATTACTAATGG 609
Db 624 CCATCGCAGATGAATCTTTCATGCTGGGGTGGCTTCTTTGGCCATGCGAGTGGCGCTGG 693
Qy 610 GAAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATTACTATAACA 669
Db 684 TCCACTGGCCCTTTTGGCAGGCCATCTGCCGGGTGGTTCATGATCTGTGGACGGTATCAACC 743
Qy 670 TGTTCACAGCATATTACCCCTCTGACACCATAGTGTGTATCATATGCAATTTGAGTCTGCC 729
Db 744 AGTTACACAGTATCTTCTGCTTGAGGGTTCATGAGCATCGACCGCTTACCTGGCGGTGGTCC 803
Qy 730 ACCTGTCAAGGCTTTAGATTTCGGTACTCCCGAATGCAAAATTTATCAATGTCTGCA 789
Db 804 ACCCCATTAAGTCAGCCAAATGGAGGCGACCCCGGACAGCAAGATGATCAACGTGGCTG 863
Qy 790 ACTGGATCCTCTCTTCAGCCATTGGTCTCTCTGTAATGTTTCATGGCT---ACAACAAAT 846
Db 864 TGTGGGTGTCTCCTCTGTGTCATTTTGGCCATCATGATATAGCTGGCTCGGAGCA 923
Qy 847 ACAGGCAAGGTTCATAGATTGTACATACTTCTCTCATCCAACTGCTGTGTAATGGAAA 906
Db 924 ACCAGTGGGTAGGAGCAGCTGCACCATCAACTGGCGGGGGAATCCGGGGCATGGTACA 983
Qy 907 ACCTGTGAAGATCTGTGTTTTCATCTTCGCTTCATATGCGGAGTCTCATCATTTACCG 966
Db 984 CGGGTTTTCATATCTATGCTCTCATCTCTGGGGTTCCTGGTACCCCTAACCATCATCTGTC 1043
Qy 967 TGTGCTATGAGCATGATCATCTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 1026
Db 1044 TCTGCTACCTGTTTCATCATCATCAAGGTGAAGTCTCTGGGATCCGAGTGGGTCTGCTCA 1103
Qy 1027 AAAAGGACAGGAATCTTCGAAGGATCACAGGATGTGTGGTGGTGGTGTGTGTCTCA 1086
Db 1104 AGAGAAAGTCAGAGAAAGGTGACCCGAATGGTATCCATCGTGGTGGTGTCTTCA 1163
Qy 1087 TCGTCTCTGAGTCTCCATTCACATTTAGTTCATCAATAAGCCTTGGTTACATCCAG 1146
Db 1164 TCTTCTGCTGGCTCCCTTCTATATCTCAATGTCTCGTCCGTGTCTGTGGCCATCAGCC 1223
Qy 1147 AACTAGTTCAGACGTCTTCTTGGCACTTCTGCACTTCTGATGTTCTAGGTTACACAAACAGCT 1206
Db 1224 CCACCTCGCCCTGAAAGGAGTGTGACITTTGGTTTGGTTTTCCTCACCTAGCCACAGCT 1283
Qy 1207 GCCTCAACCCAGTCTCTTATGCAATTTCTGGATGAAATCTTCAACAGATGCTTC 1259
Db 1284 GCGCAACCCATCTCTAGCCCTTCTTGTCCGACACTTCCAGAGAGCTTC 1336

RESULT 6

US-10-750-185-36071/c
; Sequence 36071, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36071
; LENGTH: 1685

; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-185-36071
Query Match 9.0%; Score 194.6; DB 6; Length 1685;
Best Local Similarity 51.4%; Pred. No. 7.7e-49; Indels 16; Gaps 3;
Matches 534; Conservative 0; Mismatches 489;
Qy 225 GCTGCCCCCAACCAAGCCAGCAATTGCATGTGCTTGGCGTACTCAAGTTGCTCCC-C 283
Db 1537 GAGGCCCAACCGGCCCATAGCTGAGATGTTCCCAATGGCACCGCTCTCTCCCTC 1478
Qy 284 AGCACACAGCCCGGTTCTGGGTCAACTTGTGCCCATTTAGATGGCAACCTGTCCGACCC 343
Db 1477 CTCTCCTAGCCCGAGCCAGGAGCTGCGCGAAGCGCGGAGGCGGCGCCCGGGC 1418
Qy 344 ATGCGGTCCGAACCGCACCAATCTGGCGGGAGAGACAGCCTGTGCGCTCCGACCGGAG 403
Db 1417 CGCGCTGCAGACGGGATGGAAGAACCGGGGGGAAACGGGTGCCAGAACCGGACCTTGAG 1358
Qy 404 TCCCTCCATGATCACGGCCATCACGATCATGGGCCCTCTACTCCATCGTGTGCGTGGG 463
Db 1357 CGAGGGCCAGGGCAGCGCTATCTCATCTCTTTTCATCTACTCCGTGTGTGCTGGTGG 1298
Qy 464 GCTCTTCGGAACCTTCTCGTTCATGTATGTGATGTGCAGATACACCAAGATGAAGACTGC 523
Db 1297 GCTCTGTGGAACTCTCCATGCTCATCTACGTGATCTCTGCGCTACGCCAAGATGAAGACGC 1238
Qy 524 CACCAACATCTACATTTTCAACCTTCTCTGGCAGATGCTTAGCCACCATGACCTGCC 583
Db 1237 CACCAACATCTACATCTCAACCTGGCCATCGCGGATGAGTCTCATGCTCAGCGTGCC 1178
Qy 584 CTTCAGAGTGTGAATTTACTTAATGGAAACATGGCCATTTGGAAACCATCTTTGCAAGAT 643
Db 1177 CTTCCTGGTCACTCCACATGCTTCCCACTGGCCCTTCCGGCGGCTACTCTGCGCCCT 1118
Qy 644 AGTGATCTCCATAGATTACTATAACATGTTTACCAGCATATTCACTCTGACCATGAG 703
Db 1117 CGTGCTCAGCGTGGACGCGAGTCAACATGTTTACCAGCATCTACTGTCTGATCTGCTGTAG 1058
Qy 704 TGTGATCGATACATTTGCACTGTGCCACCTGTCAAGGCCCTTAGATTTCGCTACTCCCG 763
Db 1057 CGTGAGCCGCTAGCTGCGCGTGGTGCACCCCATCAAGGCGCGCACGCTACCGCGGCCAC 998
Qy 764 AATGCCCCAAATTTCAATGCTCTGCACTGGATCTCTCTTCAGCCATTTGGTCTTTC- 820
Db 997 CGTGCCCAAGTGGTGAATCTGGCGGTGGTGGTGTCTGCTGCTGCTCATCTGCGCCAT 938
Qy 821 TGTAAATGTTTCATGGCTACAAACAAATACAGGCAAGGTTCCATAGATTGTACACTAAACATT 880
Db 937 CGTGGTCTTCTCGGCACGCGCGCCAAACAGCAGCGGACGCGTGGCTGCAACATGCTCAT 878
Qy 881 CTCTCATCCAACTGTGATCTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTCGGCTT 940
Db 877 GCGCGAGCCCGCCAGCGCTGGCTGGTGGGCTTTCGTGTTGTACACTTTCTCATGGGCTT 818
Qy 941 CATATGCCAGTGTCTCATCATTTACCGTGTCTATGAGTGTGATGATCTTGGCGCTCAAGAG 1000
Db 817 CCGTGTGCCCGTCCGGGCCCATCTGCTGTGTGCTACGCTCATCATGCCAAATGCGCAT 758
Qy 1001 TGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTTGAAAGGATCACAGGAT 1060
Db 757 GGTGGCCCTCAAGCCCGCTGGCAGCAGCGCAAGCGCTCGAGGCGCAAGATCACCTGAT 698
Qy 1061 GGTGCTGGTGGTGGCTGTGTTTCATGCTGTGTGAGTCTCCCATTTACATTACGTCAT 1120
Db 697 GGTGATGATGGTGGTGTGATGTTGTGTCATCTGCTGGATGCTTCTTATGTGGTGCAGCT 638
Qy 1121 CATTAAGCCCTGTTTACATCCAGAAACTGCTTCCAGACTGTTTCTTGGCACTTCTG 1180
Db 637 AGTCAACGTGTTCGGGAGCAGGACGACCGCAGGTGA-----GCCAGCTGTC 590
Qy 1181 CATTTGCTTAGGTTTACAAACAGCTGCCTCAACCCAGTCTCTTATGCAATTTCTGGATGA 1240

604 TAATGGGAACATGGCCATTTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATTACT 663
394 CCCTGCGCCCATGGCCCTTGGCTCCGCTGCTGCGCGGGTGTCTCAGCGTTCAGCGCC 453
664 ATAACTGTTTCAACAGCATATTTACCCCTCTGCAACCATGAGTGTGTGATCGATATTCAG 723
454 TCAACATGTTTCAACAGCGTCTTCTGTCTCACCGTGTCTCAGCGTGTGAGCCGCTACGTGCGCG 513
724 TCTGCCACCTGTCAAGCGCTTGAATTTCCGCTACTCCCGGAATGCCAAATATATCAATG 783
514 TGGTGCACCTCTCTGCGCGCGGCGACCTACCGCGCGCGCGAGCGTGTGCGCAAGCTCATCAACC 573
784 TCTGCAACTGATCTCTCTTTCAGCCATTTGCTTCTGTAATGTTTCATGCTGCTACCAAA 843
574 TGGCGGTGTGGCTGGCATCCCTGTTGGTCACTCTCCCATCGCCATCTTTCGACAGACCA 633
844 AATACAGCGCAAGGTTTCCATAGATTGTACACTAATCTCTCTCATCCAACTGTGTACTGGG 903
634 GACCGGCTCGCGCGCGCGAGCGCTGCGCTGCAACCTGCACTGGCCACACCGCGCTGGT 693
904 AAACCTCGTGAAGATCTGTTTTCATCTTTCGCTTTCATTTATGCGAGTGTCTCATCATTA 963
694 CGGCAGTCTGCTGCTTACACTTTTCTGCTGGGCTTCTGCTGCGCGTGTGCGCCATTG 753
964 CCGTGTCTATGGACTGATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGCTCCA 1023
754 GYCTGTGCTACTCTGCTATGCTGGGCAAGATGCGCGCGTGGCGCTGTGCGKGGCTGGC 813
1024 AAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTCTGGTGGTGGTGTGT 1083
814 AGCAGCGCGCGCTCGGAGAGAAATCACAGGCTGGTGTCTGATGTTGCTGGTGTCT 873
1084 TCATCGTGTCTGAGTCTCCCATTCACATTTACATTTACATTTAAAGCTTGTGTTCATATCC 1143
874 TTGTGCTCTGCTGGATGCTTCTACGTGTGCGAGTGTCTGAACTCTCTGCTGACAGCC 933
1144 CAGAACTACGTTCCAGACTGTTTCTGGCACTTCTGCACTTCTGATGCTCTAGGTATACAAACA 1203
934 TTGATGCCACCGTCAAC-----CACGTGCTCCCTTATCTCTAGCTATGCCAAYA 981
1204 GCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTC 1259
982 GCTGGCCAAACCCATTTCTATGGYTTCTCTATGGYTTCTCTCCGACAACTTCGCGGATYCTTC 1037

RESULT 9
US-10-995-561-320
; Sequence 320, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 320
; LENGTH: 1498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-320

Query Match 8.7%; Score 187.6; DB 6; Length 1498;
Best Local Similarity 51.9%; Pred. No. 9.9e-47;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

424 TCACGATCATGCCCTCTACTCTCATCGTGTGGTGGGCTCTTCGGAACCTTCTCTGG 483
214 TCGTATTCAGTGCATCTACGGCTGTGTGCTGTGGGCTGTGTGGCAACGCCCTGG 273

484 TCATGTATGTGATTTGTGATACCAAGATGAGACTGCCACCAACATCTTACATTTTCA 543
274 TCATCTTCGTGATCCCTTCGCTACGCGAAGATGAGCGGTACCAACATCTTACCTGTCTCA 333
544 ACCTTGTCTGGGAGATGCTTAGCCACAGTACCTTCCCTTCCAGAGTGTGAATTACC 603
334 ACCTGGCCGTAGCGGAGAGCTCTTTCATGCTGAGCGTGGCTTTCGTGGCGCG 393
604 TAATGGGAACATGGCCATTTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATTACT 663
394 CCCTGCGCCCATGGCCCTTGGCTCCGCTGCTGCTGCGCGGGTGTCTCAGCGTTCAGCGCC 453
664 ATAACTGTTTCAACAGCATATTTACCCCTCTGCAACCATGAGTGTGTGATCGATATTCAG 723
454 TCAACATGTTTCAACAGCGTCTTCTGTCTCACCGTGTCTCAGCGTGTGAGCCGCTACGTGCGCG 513
724 TCTGCCACCTGTCAAGCGCTTGAATTTCCGCTACTCCCGGAATGCCAAATATATCAATG 783
514 TGGTGCACCTCTCTGCGCGCGGCGACCTACCGCGCGCGCGAGCGTGTGCGCAAGCTCATCAACC 573
784 TCTGCAACTGATCTCTCTTTCAGCCATTTGCTTCTGTAATGTTTCATGCTGCTACCAAA 843
574 TGGCGGTGTGGCTGGCATCCCTGTTGGTCACTCTCCCATCGCCATCTTTCGACAGACCA 633
844 AATACAGCGCAAGGTTTCCATAGATTGTACACTAATCTCTCTCATCCAACTGTGTACTGGG 903
634 GACCGGCTCGCGCGCGCGAGCGCTGCGCTGCAACCTGCACTGGCCACACCGCGCTGGT 693
904 AAACCTCGTGAAGATCTGTTTTCATCTTTCGCTTTCATTTATGCGAGTGTCTCATCATTA 963
694 CGGCAGTCTGCTGCTTACACTTTTCTGCTGGGCTTCTGCTGCGCGTGTGCGCCATTG 753
964 CCGTGTCTATGGACTGATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGCTCCA 1023
754 GYCTGTGCTACTCTGCTATGCTGGGCAAGATGCGCGCGTGGCGCTGTGCGKGGCTGGC 813
1024 AAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTCTGGTGGTGGTGTGT 1083
814 AGCAGCGCGCGCTCGGAGAGAAATCACAGGCTGGTGTCTGATGTTGCTGGTGTCT 873
1084 TCATCGTGTCTGAGTCTCCCATTCACATTTACATTTACATTTAAAGCTTGTGTTCATATCC 1143
874 TTGTGCTCTGCTGGATGCTTCTACGTGTGCGAGTGTCTGAACTCTCTGCTGACAGCC 933
1144 CAGAACTACGTTCCAGACTGTTTCTGGCACTTCTGCACTTCTGATGCTCTAGGTATACAAACA 1203
934 TTGATGCCACCGTCAAC-----CACGTGCTCCCTTATCTCTAGCTATGCCAAYA 981
1204 GCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTC 1259
982 GCTGGCCAAACCCATTTCTATGGYTTCTCTATGGYTTCTCTCCGACAACTTCGCGGATYCTTC 1037

RESULT 10
US-10-995-561-13298
; Sequence 13298, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13298
; LENGTH: 86131
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13298

Query Match 8.7%; Score 187.6; DB 6; Length 86131;
Best Local Similarity 51.9%; Pred. No. 2.1e-45; Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

QY 424 TCACGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTCCTGG 483
DB 6215 TCAGTATCCAGTGCATCTAGCGCTGTGTGCTGTGCGGTGGGCTGGGCAACGCCCTGG 6274
QY 484 TCATGTATGTGATGTCAGATACACCAAGATGAAGACTGCGCACCACATCTACATTTTCA 543
DB 6275 TCATCTTCGTGTATCTTCGTAGCCCAAGATGAAGACGGCTACCAACATCTACTCTCTCA 6334
QY 544 ACCTTGCTCTGCGAGATGCTTAGCCACCAGTACCTGCGCTCCCTCCAGAGTGTGAATTAC 603
DB 6335 ACCTGCGGTAGCCGACGAGCTCTTATGCTGAGCGTGCCCTTCGTGGCTCTGTGGCGG 6394
QY 604 TAAATGGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCCATAGATTACT 663
DB 6395 CCCTGGCCACTGGCCCTTCGGCTCGTGTGCGCGGGTGTCTCAGGGTCGACGGCC 6454
QY 664 ATAAATGTTACACAGATATCACCCCTGTGACCATGAGTGTGTATGATATGATGAG 723
DB 6455 TCAACATGTTACACAGCGTCTTCTGTCTCACCGTGTCTCAGCGTGGACCGCTACGTGGCG 6514
QY 724 TCTGCCACCCCTGCAAGGCTTAGATTTCGTACTCCCGAATGCAAAATATCAATG 783
DB 6515 TGTGTGACCCCTGTGCGGCGGCGACCTTACCGGGGCCAGCGTGGCCAAAGCTCATCAAC 6574
QY 784 TCTGCAACTGGATCTCTTTCAGCCATTTGGTCTTCTGTATGTTTCATGGCTTACAACAA 843
DB 6575 TGGCGGTGTGGCTGGCATCCCTGTGTGCTACTCTCCCATCGCCATCTTCGACAGACCA 6634
QY 844 AATACAGGCAAGGTTCCATAGATTTGACATAACATTTCTCTCATCCAACTGTGATCGG 903
DB 6635 GACCGGCTCGCGGCGGCCAGCGCTGGCCCTGCAACCTGCAAGTGGCCACACCGCGCTGGT 6694
QY 904 ABAACCTCGTGAAGATCTGTGTTTCATCTTCGCCCTTCAATTATGCGAGTGTCTCATTTA 963
DB 6695 CGGCACTGTTGCGGTCTACACTTCTCTGCGGCTTCCTGTGCGGCTGCTGCGCCATTTG 6754
QY 964 CCGTGTCTATGACTGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
DB 6755 GYCTGTGCTACCTGCTCATCTGCGGCAAGATGCGCGCGTGGCCCTGYGCMKGGCTGCG 6814
QY 1024 AAGAAAGGACAGGAATCTTCGAAGATACACAGGATGCTGTGTGTGTGTGTGTGTGT 1083
DB 6815 AGCAGCGCAGCGCTCGGAGAGAAATACACAGGCTGTGTGTGTGTGTGTGTGTGTGTGT 6874
QY 1084 TCATCTCTGCTGGACTCCCATTTACATTTACGTATCATATTAAAGCTTGTGTGTGTGTGT 1143
DB 6875 TTGTGTCTGTGGATGCTCTTCTACGTGTGAGCTGTGTGAACCTCTCTGACAGGCC 6934
QY 1144 CAGAAACTAGTTCACAGCTTTCTTGTGGCACTTCTGCACTTGTCTAGGTACACAAACA 1203
DB 6935 TTGATGCCACCGTCAAC-----CACGTGCTTATCTTATCTTATCTTATCTTATCTTAT 6982
QY 1204 GCTGCTCAACCAAGCTCTTTATGATTTCTGATGAAATTTCAACCAAGATGCTTC 1259
DB 6983 GCTGCGCAACCCYATTTCTATGGTTCCTCTCCGACCAACTTCCGCGCATCTTC 7038

RESULT 11
US-11-136-527-2101
; Sequence 2101, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25

; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2101
; LENGTH: 3635
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2101

Query Match 8.2%; Score 177; DB 7; Length 3635;
Best Local Similarity 52.6%; Pred. No. 3.5e-43;
Matches 443; Conservative 0; Mismatches 385; Indels 15; Gaps 2;

QY 420 GCATCACGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTC 479
DB 316 GCCATTTCTCATCTCTTTTCTATCTCCGTGGTGTATCTTGTGGGACTGTGTGGGAACCTCC 375
QY 480 CTGGTCTATGTATGTGTGATGTAGATACACCAAGATGAAGACTGCCACCAACATCTACATT 539
DB 376 ATGGTCAATTTAGTGTATCTCTGCTACGCCAAGATGAAGACCGCAACCAACATCTACATT 435
QY 540 TTCAACCTTGTCTTGGCAGATGCTTAGCCACAGTACCCCTGCGCTTCCAGAGTGTGAAT 599
DB 436 CTAAACCTGGCCATTTGCTGATGAGCTGTCTATGCTCAGCGTGGCTTTCTGTGCACTTCC 495
QY 600 TACCTAATGGGAACATGGCCATTTGGAACCATCTTTCGAAGATAGTGTATCTCCATAGAT 659
DB 496 AGCGTGTGTGCGCATCTGGCCCTTTGGCGGCTACTTTGCGCTGTGTGTGTGTGTGTGTGT 555
QY 660 TACTATAACATGTTCAACAGCATATTTACCCCTCTGCACCATGAGTGTGTGTGTGTGTGTGT 719
DB 556 GCGTCAACATGTTCAACAGCATCTACTGTCTGATGTGTGTGTGTGTGTGTGTGTGTGTGT 615
QY 720 GCGTGTGCGCACCTGTCAAGGCTTATGATTTTCGTTACTTCCCGCAAAATGCCAAATTTATC 779
DB 616 GCTGTGGWGCACCCGATCAAGGCAGCGGCTTACCGTCCGCCCACTGTGTGGCCAAAGTAGTG 675
QY 780 ATGTGTGCAACTGATCTCTCTTTCAGCCATTTGTCTTCCGTATGTTTATGTGTGTGTGTGTGT 836
DB 676 AACCTGGGCGTGTGGT 735
QY 837 ACAACAAATAACAGCAAGGTTTCCATAGATTTACACTAAACATTTCTCTCATCAACCTGG 896
DB 736 ACCGAGCCCAACAGCGATGGCAGCGTGGCTGCAACATGCTCATGCGCGCGCCCGCCAG 795
QY 897 TACTGGGAAAACCTCGTGAAGATCTGTGTTTTTCTATCTTCCGCTTCAATTAAGCAGTGTCT 956
DB 796 CGCTGTGTGGGCTTGTCTTATACACATTTCTCATGGGCTTCTGTGTGTGTGTGTGTGTGTGT 855
QY 957 ATCATTAACGTTGT 1016
DB 856 GCCATCTGCTGT 915
QY 1017 GGCTCCAAAGAAAAGACAGGAATCTTTCGAAGGATCACCAGGATGCTGTGTGTGTGTGTGTGT 1076
DB 916 GGCTGGCAGCAGCGCAAGCGCTCAGAGCGCAAGATCATCTAATGGTGTGTGTGTGTGTGTGT 975
QY 1077 GCTGT 1136
DB 976 ATGGTTTTTGT 1035
QY 1137 ACAATCCCAAGAACTAGCTTCCAGACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1196
DB 1036 GAGCAAGACGACGCCACGGT-----GAGCCAGTTGTGTGTGTGTGTGTGTGTGTGTGTGT 1083
QY 1197 ACAAAACAGCTGTCTCAACCCAGTCTCTTATGATTTCTTGTGATGAAATTTTCAAAACGATGC 1256
DB 1084 GCCAATAGCTGTGCGCAACCCCATCTCTACGCGCTTCTGTGTGTGTGTGTGTGTGTGTGTGTGT 1143
QY 1257 TTC 1259
DB 1144 TTC 1146

Db 881 GATTATGTTACCTGCTTATCGTGGCAAGATCGTCTGTGGCCCTGTGGCGGTGGCTGGC 940
Qy 1024 AAGAAAGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTGGTGGTGT 1083
Db 941 AACACGGAGACCTCAGAGAAGAAGATCACTAGGCTCGTGTAAATGGTGGTGTCT 1000
Qy 1084 TCATCGTCTGCTGGACTCCCATTTACATTTACGTCAATTAAGCCCTTTGTACAACTC 1143
Db 1001 TTGTGCTATGCTGGATGCGCAATCTATGTAGTGACGCTTCTGAATCTGTTGTACACAGCC 1060
Qy 1144 CAGAAACTAGTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTGATGCTTACAGTTACACAAACA 1203
Db 1061 TCGATGCCACTGTCAACCAATGTGCTCCCTCATCTCAGCTATGCC-----AACA 1108
Qy 1204 GCTGCCCTCAACCAGTCTTTATGCAATTTCTGGATGAAGAACTTCAACAGATGCTTC 1259
Db 1109 GCTGTGCCAACCGGATCTCTATGGTTCCTCTCAGACAACTTCCGACGCTCTTTC 1164
RESULT 14
US-10-533-355-9
; Sequence 9, Application US/10533355
; Publication No. US20050272040A1
; GENERAL INFORMATION:
; APPLICANT: University of Medicine and Dentistry of New Jersey
; APPLICANT: Black, Ira B.
; TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
; FILE REFERENCE: UMD-0016
; CURRENT APPLICATION NUMBER: US/10/533,355
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: US 60/422,986
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1865
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-533-355-9

Query Match 7.3%; Score 158.8; DB 6; Length 1865;
Best Local Similarity 50.5%; Pred. No. 8.1e-38;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;
Qy 424 TCAGATCATGGCCCTCTACTCATCGTGTGGTGGGCTCTTCGGAAACTTCTCTGG 483
Db 189 TAACTATCCAGTGCATCTATGCGCTCGTGTCTGTGGTGGGCTGTGGTAGGAAACGGCCCTGG 248
Qy 484 TCATGTATGTGATTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCA 543
Db 249 TCATATCGTGATCTCTACGCTATGCGCAATGAAGACAGCCACCAACATCTACCTGCTCA 308
Qy 544 ACCTTGCTCTGGCAGATGCTCTAGCCACCACTACCTGCCCTTCCAGAGTGTGAATFACC 603
Db 309 ACCTGGCCGTGCTGATGAGCTCTTATGCTCAGTGTGCCATTTGGGCTCGGGGGCTG 368
Qy 604 TAAATGGAAATGCGCATTTGGAAACCATCTTTTGAAGATATGATGATCTCCATAGATTACT 663
Db 369 CCCTGGCCACTGGCGGTTTCGGGGCGGTGTGTGCGCGCGAGTGTCTAGTGTGGAGCGCC 428
Qy 664 ATAAATGTTTCAACGATATTCACCTCTGCACCATGATGTTGATTCGATCATCATTTGACG 723
Db 429 TTAACATGTTTCAAGATGCTTCTGCTCTCAGTGTCTACAGCGTGGATCGCTATGTGGCTG 488
Qy 724 TCTGCCACCTGTCAAGGCGCTTAGATTTCCGTAATCCCGGAAATGCAAAATTTATCAATG 783
Db 489 TAGTGACACCTCTGCAGCTGCCACCTACCGGGGCCAGCGTGGCCAGCTAATCAACC 548
Qy 784 TCTGCAACTGGATCTCTCTTACGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAAACA 843
Db 549 TGGGAGTGTGGCTAGCATCTCTTGTGTCACCTGCGCCATCGCAGTCTTTCGCTGACACTA 608

Qy 844 AATACAGCAAGGTTTCCATAGATTGTATACATAACAAATTTCTCATCAACCTGCTACTGGG 903
Db 609 GCCAGCTCGTGGGGGTGAGGAGTAGCTTGCAACCTGCACCTGCGCTCACCCGGCTGCT 668
Qy 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCAATATGCGAGTGTCTCATATTA 963
Db 669 CTGCACTCTTTGTGATCTATCTATTTTGTGGGGTTCCTACTCCGGTTCCTGGCTATCG 728
Qy 964 CGGTGCTGTATGAGCTGATGATCTTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 729 GATTATGTTTACCTGCTTATCGTGGCAAGATGCGTGTGGCCCTGCGGGCTGGCTGGC 788
Qy 1024 AAGAAAAGACAGGAATCTTTCGAAGGATCACACAGGATGCTGTGGTGGTGGTGTGT 1083
Db 789 AACACGGAGGCGCTCAGAGAAGATCACTAGGCTCGTGTAAATGGTGGTGTGTCT 848
Qy 1084 TCATCGTCTGTGGACTCCCATTCATTTAGCTCATCATTTAAAGCTTGGTTTACAACTC 1143
Db 849 TTGTGCTATGCTGGATGCGCAATCTTATGTAGTGCAGCTTCTGAATCTGTTTGTCAACAGCC 908
Qy 1144 CAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTGATGCTCTAGGTTACACAAACA 1203
Db 909 TCGATGCCACTGTCAACCAATGTCCTCATCTCAGCTATGCC-----AACA 956
Qy 1204 GCTGCCCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAGAACTTCAACAGATGCTTC 1259
Db 957 GCTGTGCCAACCGGATCTCTATGGTTCCTCTCAGACAACTTCCGACGCTCTTTC 1012

RESULT 15
US-10-750-185-62128/c
; Sequence 62128, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62128
; LENGTH: 856
; TYPE: DNA
; ORGANISM: Bovine 19866881260208
US-10-750-185-62128

Query Match 7.0%; Score 151.8; DB 6; Length 856;
Best Local Similarity 93.0%; Pred. No. 6.4e-36;
Matches 159; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
Qy 1209 CTCAACCCAGTCTTTTATGCAATTTCTGGATGAAAACTTCAAACGATGTTTCAGAGATTTC 1268
Db 856 CTGAACCCCGTCTTTTATGCAATTTCTGGATGAAAACTTCAAACGATGTTTCAGAGATTTC 797
Qy 1269 TGTATCCCAACCTCTTCCAACTTTCAGCAACAAAATCCACTCGAATTCGTGAGACACT 1328
Db 796 TGTATCCCAACTTCTCCACCATTCAGCAGCAAAAATCCACTCGAATTCGTGAGACACT 737
Qy 1329 AGAGACCAACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTA 1379
Db 736 AGAGACCAACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTA 686

Search completed: January 9, 2006, 15:42:37

Job time : 311.514 secs

THIS PAGE BLANK (USPTO)

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	2158.4	99.8	2162	7	US-11-127-877A-18	Sequence 18, Appl
2	442.4	20.5	1773	7	US-11-271-383-3	Sequence 3, Appl
3	441.6	20.4	2219	7	US-11-271-383-1	Sequence 1, Appl
4	433.2	20.0	1143	7	US-11-302-678-21	Sequence 21, Appl
5	433.2	20.0	1143	7	US-11-302-678-19	Sequence 19, Appl
6	433.2	20.0	4959	8	US-60-751-420-1861	Sequence 1861, Ap
7	187.6	8.7	1167	8	US-60-751-455-1983	Sequence 1983, Ap
8	182.4	8.4	4343	8	US-60-751-420-2833	Sequence 2833, Ap
9	161.6	7.5	1002	8	US-60-751-455-2819	Sequence 2819, Ap
10	149	6.9	987	8	US-60-751-420-1859	Sequence 1859, Ap
11	149	6.9	7563	8	US-60-740-736-19	Sequence 19, Appl
12	143	6.6	1257	8	US-60-751-455-1982	Sequence 1982, Ap
13	141.4	6.5	2123	8	US-60-742-219-749	Sequence 749, App
14	100.6	4.7	7563	8	US-60-740-736-102	Sequence 102, App
C	94	4.3	7563	8	US-60-740-736-230	Sequence 230, App
	94	4.3	3219	7	US-11-224-525-594	Sequence 594, App
16	93.4	4.3	3219	7	US-11-224-663-594	Sequence 594, App
17	93.4	4.3	3219	7	US-11-224-663-594	Sequence 594, App
18	86.4	4.0	169	7	US-11-271-383-6	Sequence 6, Appl
19	85.4	4.0	1339	7	US-11-224-525-596	Sequence 596, App
20	85.4	4.0	1339	7	US-11-224-663-596	Sequence 596, App
21	83.2	3.8	1945	7	US-11-127-877A-27	Sequence 27, Appl
22	79.2	3.7	2156	6	US-10-555-734-20	Sequence 20, Appl
23	79.2	3.7	2690	7	US-11-314-565-85	Sequence 85, Appl
24	77.8	3.6	1309	8	US-60-751-420-3333	Sequence 3333, Ap
25	76.6	3.5	2347	7	US-11-127-877A-28	Sequence 28, Appl

181 CGCACGCGTCCGCGCGCGTCACTACATGACAGCAGCGCTGCCCCACGAACG 240
181 CGCACGCGTCCGCGCGCGCGTCACTACATGACAGCAGCGCTGCCCCACGAACG 240
241 CCAGCAATTCAGTATGCTTGGCTGCTCAAGTTGCTCCCGCAGCACCGCCCGGTT 300
241 CCAGCAATTCAGTATGCTTGGCTGCTCAAGTTGCTCCCGCAGCACCGCCCGGTT 300
301 CTGGGTCAACTTGTCCCACTTATAGATGGCAACCTGTCGACCCATCGGTCGGAACCGCA 360
301 CTGGGTCAACTTGTCCCACTTATAGATGGCAACCTGTCGACCCATCGGTCGGAACCGCA 360
361 CCAATCTGGCGGAGAGACAGCTGTCCTCCGACCGCAGTCCCTCCATGATCACGG 420
361 CCAATCTGGCGGAGAGACAGCTGTCCTCCGACCGCAGTCCCTCCATGATCACGG 420
421 CCATCAAGATCATGGGCCCTTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
421 CCATCAAGATCATGGGCCCTTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
481 TGGTCATGATGATGATGTCAGATACACCAAGATGAAGACTGCGCACCAACATCTCATTT 540
481 TGGTCATGATGATGATGTCAGATACACCAAGATGAAGACTGCGCACCAACATCTCATTT 540
541 TCAACCTTGTCTGGCAGATGCTTGGCCACCAAGTACCTGCGCCCTTCAGAGTGTGAAT 600
541 TCAACCTTGTCTGGCAGATGCTTGGCCACCAAGTACCTGCGCCCTTCAGAGTGTGAAT 600
601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTGGCAAGATAGTGTCTCCATAGATT 660
601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTGGCAAGATAGTGTCTCCATAGATT 660
661 ACTAATACTGTTCAACAGATATCAACCTCTGCAACCATGATGTTGATCGATACATTG 720
661 ACTAATACTGTTCAACAGATATCAACCTCTGCAACCATGATGTTGATCGATACATTG 720
721 CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCGGTACTCCCGAATGCAAAATTTATCA 780
721 CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCGGTACTCCCGAATGCAAAATTTATCA 780
781 ATGCTGCAACTGGATCTCTCTTCAGCCATTGGTCTCTCTGTAATGTTTCATGGCTACAA 840
781 ATGCTGCAACTGGATCTCTCTTCAGCCATTGGTCTCTCTGTAATGTTTCATGGCTACAA 840
841 CAAATAACAGGCAAGGTTCCATAGATTGTACACTAACTCTCTCATCCAACTGGTACT 900
841 CAAATAACAGGCAAGGTTCCATAGATTGTACACTAACTCTCTCATCCAACTGGTACT 900
901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTGTCTATCA 960
901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTGTCTATCA 960
961 TTACCGTGTCTATGACTGATGATCTTCGCCCTCAAGAGTGTCCGCATGCTCTCTGGCT 1020
961 TTACCGTGTCTATGACTGATGATCTTCGCCCTCAAGAGTGTCCGCATGCTCTCTGGCT 1020
1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCAACAGGATGTTGCTGGTGGTGGCTG 1080
1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCAACAGGATGTTGCTGGTGGTGGCTG 1080
1081 TGGTTCATGCTGCTGGATCTCCCATTTACATTTACGTCATTAAGGCTTGGTTACAA 1140
1081 TGGTTCATGCTGCTGGATCTCCCATTTACATTTACGTCATTAAGGCTTGGTTACAA 1140
1141 TCCCAAAACTAGTTTCCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGGTTACACAA 1200
1141 TCCCAAAACTAGTTTCCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGGTTACACAA 1200
1201 ACAGCTGCTCAACCCAGTCTTTTATGCAATTCCTGGATGAAACCTTCACCAACGATCTTCA 1260
1201 ACAGCTGCTCAACCCAGTCTTTTATGCAATTCCTGGATGAAACCTTCACCAACGATCTTCA 1260

1261 GAGAGTTCGTATCCCAACCTCTTCCAACTTGGACCAACAACTCCACTCGAATTCGTC 1320
1261 GAGAGTTCGTATCCCAACCTCTTCCAACTTGGACCAACAACTCCACTCGAATTCGTC 1320
1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCACTAG 1380
1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCACTAG 1380
1381 AAAATCTGGAACAGAACTGCTCGTTGCCCTTAACAGGGTCTCATGCCATTCGACCTT 1440
1381 AAAATCTGGAACAGAACTGCTCGTTGCCCTTAACAGGGTCTCATGCCATTCGACCTT 1440
1441 CACCAAGCTTTAGAACCACTATGTGGAAGCAGGTGCTTCAAGAACTGTGTAGGAG 1500
1441 CACCAAGCTTTAGAACCACTATGTGGAAGCAGGTGCTTCAAGAACTGTGTAGGAG 1500
1501 CTCTAATCTCTAGAAAGTGCTACTTTTAGGTCAATCAACCTCTTTCTCTCTGGCCA 1560
1501 CTCTAATCTCTAGAAAGTGCTACTTTTAGGTCAATCAACCTCTTTCTCTCTGGCCA 1560
1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAGTGGACATTTGGAAAGGAAGAA 1620
1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAGTGGACATTTGGAAAGGAAGAA 1620
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
1681 GTATGTGAATTTGAAGTCAATAAAAGGTGACCTTCTCTGTGAAGATTTTATTTTCAA 1740
1681 GTATGTGAATTTGAAGTCAATAAAAGGTGACCTTCTCTGTGAAGATTTTATTTCAA 1740
1741 GCAATATTTATGACCTCAACAAAGAACCATCTTTTGTAACTTCAACCTAGTAAACA 1800
1741 GCAATATTTATGACCTCAACAAAGAACCATCTTTTGTAACTTCAACCTAGTAAACA 1800
1801 CATAAAGTAAATGTCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTATAG 1860
1801 CATAAAGTAAATGTCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTATAG 1860
1861 TGTCTTTCAGAGGGAATGAATCAATTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
1861 TGTCTTTCAGAGGGAATGAATCAATTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGCATCTTTTCACTCACTTTTCTGGTTTGTATTTGTTAAAAA 1980
1921 TAGCATCTGGCTAAGGCATCTTTTCACTCACTTTTCTGGTTTGTATTTGTTAAAAA 1980
1981 AATAACATCTCTTTTCTCATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAGTAA 2040
1981 AATAACATCTCTTTTCTCATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAGTAA 2040
2041 TCTGAAACACAGTCAATGTGTCACTGTAGAAAGTGTGATTTCTATGCACTNCAAAATCTT 2100
2041 TCTGAAACACAGTCAATGTGTCACTGTAGAAAGTGTGATTTCTATGCACTNCAAAATCTT 2100
2101 CCAAGAGTCATCATGGGGATTTTTCATTTAGGCTTTTCACTGTTGTTCTTGGAT 2160
2101 CCAAGAGTCATCATGGGGATTTTTCATTTAGGCTTTTCACTGTTGTTCTTGGAT 2160
2161 TC 2162
2161 TC 2162

RESULT 2

US-11-271-383-3
; Sequence 3, Application US/11271383
; GENERAL INFORMATION:
; APPLICANT: Allen, Keith D.
; TITLE OF INVENTION: DELTA OPIOID RECEPTOR DISRUPTIONS,
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATING THERETO
; FILE REFERENCE: R-678

; CURRENT APPLICATION NUMBER: US/11/271,383
; CURRENT FILING DATE: 2005-11-09
; PRIOR APPLICATION NUMBER: US/10/112,599
; PRIOR FILING DATE: 2002-09-05
; PRIOR APPLICATION NUMBER: US 60/280,513
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1773
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-271-383-3

Query Match 20.5%; Score 442.4; DB 7; Length 1773;
Best Local Similarity 63.8%; Pred. No. 5e-119;
Matches 687; Conservative 0; Mismatches 386; Indels 3; Gaps 1;

Qy	282	CCAGCACCCAGCCCGGTTCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGAC	341
Db	240	CGGCCCCCTCCGCGGGCGAGCTGCAGCCCCCGTCTTCGCCAAGGCTCGGACGCC	299
Qy	342	CCATGCGGTCCGAACCCGACCAATCTGGCGGGAGACAGACCTGTGCCCTCCGACCGC	401
Db	300	TACCTAGCGCTTCCCGAGCGCTGGGCCCAATCGCTGGGGCGCCAGGACCGGGGAGC	359
Qy	402	AGTCCCTCATGATCAGGGCCATCAGATCATGGCCCTTACTTCCATCGTGTGGTGGTG	461
Db	360	GCCTCGTCCCTCGCCCTGGCAATCGCCATCACCGCGCTTACTCGGCGGTGTGGCGCGT	419
Qy	462	GGGCTCTCGGAATCTTCTGGTCTATGTATGTGTGATGTGCAGATACCAAGATCAAGACT	521
Db	420	GGGCTGTGGCAACAGTCTTGTATGTTGGCATGTCCGGTACATAGATGAGACG	479
Qy	522	GCCACCAACATCTACATTTTCAACCTTGTCTCGCAGATGCTTTCAGCAACAGTACCCTG	581
Db	480	GCCACCAACATCTACATTTTCAACCTTGTCTCGCAGATGCTTTCAGCAACAGTACCCTG	539
Qy	582	CCCTTCAGAGTGTGAATTACTTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAG	641
Db	540	CTTTTCCAGAGTGGCAAGTACTGATGGAGACGTTGGCCCTTCGGCGAGCTGCTTGAAG	599
Qy	642	ATAGTGATCTCCATAGATTACTATAACATGTTTCAACGATATTCACCTCTCGCACCATG	701
Db	600	GCTGTGCTCTCCATGACTACTACATATGTTTACAGCATCTTCAAGCTCACCATGATG	659
Qy	702	AGTGTTCATGATGATTCAGTCTGCGACCCCTGTCAAGGCTTTAGATTTCCGTAATCCC	761
Db	660	AGTGTGACCGCTACATCGCTGTCTGCCACCTGTCAAGGCCCTGGACTTCGGCAGCGCT	719
Qy	762	CGAAATGCCAAATTTATCAATGTCGCAACTGGATCTCTTTCAGCCATTTGCTTTCCT	821
Db	720	GCCAAAGGCAAGCTGATCAACATCTGATCTGGGTCTTGGGCTCAGGCGTTGGCGTGCC	779
Qy	822	GTAATGTTTCATGGGTACAAACAAATACAGGCAAGTTCATAGATTGTACACTAACATTC	881
Db	780	ATCATGTTTCATGGGTGACCCCGTCCCGGACGCTGCAGTGTGATGCTCAGTTC	839
Qy	882	TCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTC	941
Db	840	CCCAGCCCCAGTGTGACTGGGACACGCTGACCAAGATCTGGTGTTCCTCTTCGCCCTTC	899
Qy	942	ATTATGCCAGTCTCATCATTTACCGTGTGCTATGACATGATGATTTCCGGCTCAGAGT	1001
Db	900	GTGGTGCCCATCTCATCATCACCGTGTGCTATGGCTCATGCTGCTGCGCTCGCGAGT	959
Qy	1002	GTCGCATGCTCTCGGCTCCAAAGAAAGGACAGGAATCTTCGAAGATCACCAAGGATG	1061
Db	960	GTGGCGCTGCTGTGGGCTCCAAAGGAAAGGACCGCCAGCTGCGGCGCATCACGGCATG	1019
Qy	1062	GTGCTGGTGGTGGTGTGTTTCATCGTCTGTGCTGCACTCCCAATTCATTTAGTCAATC	1121
Db	1020	GTGCTGGTGGTGGTGGTGTGTTTCATCGTCTGTGCTGCACTCCCAATTCATTTAGTCAATC	1079

Qy	1122	ATTAAAGCCTTGCTTACAAT---CCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTC	1178
Db	1080	GTCTGGACGCTGCTGGACATCGACCGCGCGACCCGCTGGTGGTGGCTGCGCTGACCTG	1139
Qy	1179	TGCATTGCTCTAGGTTACACAACAGCTGCTCAACCCAGTCTCTTTATGCAATTTCTGGAT	1238
Db	1140	TGCATCGCTGGGCTACGCCAATAGCAGCTCAACCCCGTGTCTACGGTCTTCTCGAC	1199
Qy	1239	GAAAACTTCAAAACGATGCTTTCAGAGAGTTCGTATCCCAACCTCTTCCAAACATTTAGCAA	1298
Db	1200	GAGAATTTCAAGCGCTGCTTCCGCCAGCTCTCGCGCAAGCCCTCGGCGCCGCCAGACCCC	1259
Qy	1299	CAAAACTTCCACTCGAATTCGTACAGAACATAGAGACCAACCCCTCCAGGGCAATATAC	1354
Db	1260	AGCAGCTTACGCGCGCCCGCGAAGCACGCGCGGAGCGTGTACCGCTGAC	1315

RESULT 3

US-11-271-383-1
; Sequence 1, Application US/11271383
; GENERAL INFORMATION:
; APPLICANT: Allen, Keith D.
; TITLE OF INVENTION: DELTA OPIOID RECEPTOR DISRUPTIONS,
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATING THERETO
; FILE REFERENCE: R-678
; CURRENT APPLICATION NUMBER: US/11/271,383
; CURRENT FILING DATE: 2005-11-09
; PRIOR APPLICATION NUMBER: US/10/112,599
; PRIOR FILING DATE: 2002-09-05
; PRIOR APPLICATION NUMBER: US 60/280,513
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2219
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-271-383-1

Query Match 20.4%; Score 441.6; DB 7; Length 2219;
Best Local Similarity 67.2%; Pred. No. 9.8e-119;
Matches 640; Conservative 0; Mismatches 309; Indels 3; Gaps 1;

Qy	406	CCTCCATGATCAGCGCCATCAGCATCATGCGCCCTCTACTCATCGTGTGCTGGGGC	465
Db	189	CGTCCCTCGCCCTAGCCATCGCCATCACCGGCTCTACTCGGCTGTGCGCAGTGGGCG	248
Qy	466	TCTTCGGAATCTTCTCGTCAATGATGTGTGATGATGATGATGATGATGATGATGATGATG	525
Db	249	TTCTGGGCAAGGTGCTGCTCATGTTTGGCATCGTCCGATACACCAAAATTTGAAGACCGCA	308
Qy	526	CAAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTAGCCACGATACCTTCCCTTCC	585
Db	309	CCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTAGCCACGATACCTTCCCTTCC	368
Qy	586	TCCAGAGTGTGAATTTACTTAATGGGAACATGGCCATTTGGAAACCATCTCTTTCGAAGATAG	645
Db	369	TCCAGAGCGCAAGTACTTGTATGGAAGAGTGGCGCTTGGCGAGCTGCTGTGCAAGGCTG	428
Qy	646	TGATCTCCATAGATTACTATAACATGTTTCCAGCATATTCACCTCTGCAACCATGATGATG	705
Db	429	TGCTCTCCATTTGACTACTACAAATGTTTCACTAGCATCTTTCACCTCACCATGATGAGCG	488
Qy	706	TTGATCGATACATTTGCAAGTTCGCCACCTGTCAAGGCTTAGATTTCCGTTACTCCCGAA	765
Db	489	TGGACCGCTACATTTGCTGTCTGCCATCTTGTCAAAGCCCTGAGACTTCGGAACACAGCCA	548
Qy	766	ATGCCAAATTTATCAATGTCTGCAACTGGATCTCTCTTCCAGCCATTTGGTCTTCTCTGTAA	825
Db	549	AGGCCAGCTGATCAATATATATGATCTGGGTCTTGGCTTCAAGTGTGCGGGTCCCCATCA	608
Qy	826	TGTTTCATGGCTTACAAACAAATACAGGCAAGGTTCCATAGATTGTACACTAAATTTCTCTC	885

```
Db 609 TGGTCATGCGAGTGACCCAAACCCGGGATGGTGCAGTGGTATGCTCCAGTTCCTCCCA 668
Qy 886 ATCAAACCTGGTACTCGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCGCTTCATTA 945
Db 669 GTCCAGCTGGTACTCGGACACTGTGACCAAGATCTGCGGTTCCTCTTTGCGCTTCGTGG 728
Qy 946 TGCAGTGTCTCATCATTCAGTGTGCTATGGAATGATCTTGGCGCTCAAGAGTGTCC 1005
Db 729 TGCCGATTCCTCATCATCGGTGTGTATGGCTCATGTACTGCGCCTGCGCAGCGTGC 788
Qy 1006 GCATGCTCTGTGCTCCAAAGAAAGACACAGGAATCTTCGAAGATCACAGGATGGTGC 1065
Db 789 GTCTGTGTCCGGTTCAGAGGAGAGGACCGAGCTTGGCGGCATCAGCGCATGGTGC 848
Qy 1066 TGTGTGTGTGGTGTGTTCACTGTGTGAGATCCCAATTCACATTTACATTTACGTTCATTA 1125
Db 849 TGTGTGTGTGGCGGCTTGTGTGTGTGTGGCGGCCATCCACATCTTCTGTCTATCGTCT 908
Qy 1126 AAGCCTTGGTTCAATC---CCAGAACTAGTTTCCAGACTGTTTCTTGGCACTTCTGCA 1182
Db 909 GGACGCTGTGGACATCAATCGCGCGACCCACTTGTGTGGCGGCACCTGCCTGTGCA 968
Qy 1183 TTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAA 1242
Db 969 TTGGCTGTGGCTACGCCACAGCAGCTCAACCGGTTCTTACGCTTCTCTGGACGAGA 1028
Qy 1243 ACTTCAAACGATGCTTCAGAGATTCGTATATCCAACTCTTCCAAATTTGAGAACAAAA 1302
Db 1029 ACTTCAAGGCTGCTTCCGCGACTCTGTGCGACGCTTGTGCGCGCCCTGCGCGCCCAAGAACCGGCA 1088
Qy 1303 ACTCGACTCGAATTCGTGAGAACACTAGAGACACCCCTCCAGCGCCATAC 1354
Db 1089 GTCTCGCTGCTCCCGCGAGCCACCACCGGTGAGCGGTGCTCACTGCGCTGCAC 1140

RESULT 4
US-11-302-678-21
; GENERAL INFORMATION:
; Sequence 21, Application US/11302678
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Silos-Santiago, Immaculada
; APPLICANT: Venkateswarlu, Karicheti
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46656, 62553, 302, 323,
; TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.
; FILE REFERENCE: MPI02-012PIRNM OMNI
; CURRENT APPLICATION NUMBER: US/11/302,678
; CURRENT FILING DATE: 2005-12-14
; PRIOR APPLICATION NUMBER: US/10/345,680
; PRIOR FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/349,511
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/360,500
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/365,041
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/374,063
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/403,468
; PRIOR FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 60/414,262
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US 60/419,986
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/423,809
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/429,797
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
```

```
; LENGTH: 1143
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1) ... (1143)
US-11-302-678-21

Query Match      20.0%; Score 433.2; DB 7; Length 1143;
Best Local Similarity 66.2%; Pred. No. 1.9e-116;
Matches 659; Conservative 0; Mismatches 328; Indels 9; Gaps 2;

Qy 337 CCGACCCATGCGGTCCGAACCCGACCAATCTCGGGGGAGACAGCCTGTGCTCCCA 396
Db 92 CCGGTGGCCGAGCCGACGAGCGCGGCTCGAGGAGCGGCGAGCTGGAGC 151
Qy 397 CCGGCGAGTCCCTCCATGATCACGGGCATACGATCATGGCCCTCTACTCATCGTGTGG 456
Db 152 CCGCGCACATCTCCCGGCCATCCCGGTCAATCATCGGCGGTCTACTCCGTAGTGTGG 211
Qy 457 TGGTGGGCTCTTCGGMAACTTCCCTGGTCACTATGTGATTTGTCAGATACACCAAGATGA 516
Db 212 TCGTGGGCTTGTGGGCAACTCGCTGGTCAATGTTGATCATCGATACACAAAGATGA 271
Qy 517 AGACTGCCACCAACATCTACATTTTCAACCTTGTCTGCGAGATGCTTTAGCCACCAGTA 576
Db 272 AGACAGCAACCAACATTTACATATTTAACCTGGCTTTGGCAGATGCTTTAGTTACTACA 331
Qy 577 CCTCGCCCTTCCAGAGTGTGAATTAACCTAATCGGAACATGGCCATTTTGGAAACATCTTT 636
Db 332 CCATGCCCTTTCAGAGTACGGTCTACTTGATGAATTCCTGGGCTTTTGGGGATGTCTGT 391
Qy 637 GCAAGATGATGATCTCCATAGATTACTATAACATGTTTCCACAGCATATTCACCTCTGCA 696
Db 392 GCAAGATGATGAATTTCCATTTGATTTACTACAAATGTTTCCACAGCATTTTACCTTGACC 451
Qy 697 CCATGAGTGTGATCGATACATTTGAGTCTGCGACCCCTGTCAAGGCTTTAGATTTCCGTA 756
Db 452 TGATGAGCGTGGACCGCTACATTTGCGTGTGCGACCCCGTGAAGGCTTTGGACTTCGCA 511
Qy 757 CTCGCCGAAATGCCAAATTAATCAATGTCTGCAATCGGATTCCTTCTTTCAGGCATTTGGTC 816
Db 512 CACCCTTGAAGGCAAAAGATCATCAATATCTGCATCTGGCTGTGTCTGTCTGTCTGTGGCA 571
Qy 817 TTCTGTAATGTTCTATGGCTACACAAATATACAGCAA-----GGTTCATAGATTGTA 870
Db 572 TCTCTGCAATAGTCTCTTGGAGGACCAAAAGTCAGGGAAGAGTCGATGTCTTATGAGTGT 631
Qy 871 CACTAACATTTCTCATCAACCTGCTACTGCGGAAACCC---TCGTGAAGATCTGTGTTT 927
Db 632 CTTTGCAGTTCACAGATGATGACTACTCTGTGGGACCTCTTTCATGAAGATCTGGGTCT 691
Qy 928 TCATCTTCGCTTCATTAATGCGAGTGTCTCATCAATACCGTGTGCTGTATGAGACTGATGATCT 987
Db 692 TCATCTTTGCTTCGTGATCTCTCTCTCATCATCTGTCTGTCTACACCTGATGATCTC 751
Qy 988 TCGGCTCAGAGATGTCCGATGCTCTCTGGCTCCAAAGAAAGACAGCAAGATCTTCGAA 1047
Db 752 TCGGCTTCAAGAGCGTCCGGCTCTTTTCTGGCTCCGAGAGAAAGATCCCAACCTGCGTA 811
Qy 1048 GGATCACCAGGATGGTGTGGTGGTGTGCTGTGTTTCATCGTCTGCTGAGCTCCCATTC 1107
Db 812 GGATCACCAGACTGGTCTCTGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 871
Qy 1108 ACATTTACGTTCATCAATTAAGCCTTGGTTTCAATCCAGAAACTACGTTTCCAGACTGTTT 1167
Db 872 ACATATTTATCTGTGGAGGCTCTGGGGAGGACCTCCCAACAGCAGCATGCTCTCTCCA 931
Qy 1168 CTGGCACTTCTGCATTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCTTCTTATG 1227
Db 932 GCTATTTACTTCTGCATCGCCTTAGGCTATACCAACAGTAGCTGAATCCCATTTCTCTACG 991
Qy 1228 CATTTCTGGATGAAAACTTCAAAACGATGCTTCCAGAGAGTTCTGTATATCCCAACCTTCCA 1287
```


Db 992 CTTTCTTGATGAAACTCTCAAGCGGTGTTCCGGGACTTCTGCTTCCACTGAAGATGA 1051
Qy 1288 ACATTGAGCAACAAATCCCACTCGAATTCGTGCA 1323
Db 1052 GGATGGAGCGGACAGCACTAGCAGAGTCCGAAATA 1087

RESULT 5
US-11-302-678-19
; Sequence 19, Application US/11302678
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Silos-Santiago, Immaculada
; APPLICANT: Venkateswarlu, Karicheti
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46556, 62553, 302, 323,
; TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.
; FILE REFERENCE: MF102-012P18NM OMNI
; CURRENT APPLICATION NUMBER: US/11/302,678
; CURRENT FILING DATE: 2005-12-14
; PRIOR APPLICATION NUMBER: US/10/345,680
; PRIOR FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/349,511
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/360,500
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/365,041
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/374,063
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/403,468
; PRIOR FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 60/414,262
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US 60/419,986
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/423,809
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/429,797
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (14)...(1156)
US-11-302-678-19

Query Match 20.0%; Score 433.2; DB 7; Length 1182;
Best Local Similarity 66.2%; Pred. No. 2e-116;
Matches 659; Conservative 0; Mismatches 328; Indels 9; Gaps 2;

Qy 337 CCGACCCATCGGTCGCGAACCGCACCAATCTGGCGGGAGAGACAGCGCTGTGCCCTCCGA 396
Db 105 CCGGTCGGCGCGAGCCCGACAGCAAGCGGCGGCTCGGAGGACGCGCAGCTGGAGC 164
Qy 397 CCGGAGTCCTCCATGATACGGCCATCAGCATCGGCCCTCTACTCCATCGTGTGCG 456
Db 165 CCGGCGCATATCTCCCGGCCATCCCGGTCATCATCACGGCGGTCTACTCCGTAGTGTTCG 224
Qy 457 TGGTGGGCTCTTCGGAACTTCTGGTCATGTATGTTCAGATACACCAAGATGA 516
Db 225 TCGTGGGCTTGGTGGCAACTCGCTGGTCATGTCGTATCATCGATACAAAGATGA 284
Qy 517 AGATGCCCAACCAATCTACATTTTCAACCTTGTCTTGGCAGATGCCCTTAGCCACCAAGTA 576
Db 285 AGACAGCAACCAACATTTACATATTTAACTGGCTTTGGCAGATGCTTTAGTTACTCAA 344

Qy 577 CCTGCGCTTCCAGAGTGTGAATTACTTAATGGGAACATGGCCATTTGGNACCATCTTTT 636
Db 345 CCATGCCCTTTCAGATACGGTCTACTTGAATTAATCTTGGCCCTTTTGGGGATGTGTGT 404
Qy 637 GCAAGATAGTATCTCCATAGATTACTATAACATGTTTCCACGACATATTCACCTCTGCA 696
Db 405 GCAAGATAGTAATTTCCATTTGATTACTACAAATGTTTCCACGATCTTCCCTTGTGCA 464
Qy 697 CCATGAGTGTGATCGATACATTTGCAGTCTGCCACCCCTGTCAAGGCGCTTAGATTTCCGTA 756
Db 465 TGATGAGCGTGGACCGCTACATTTCCGCTGTGCCACCCCGTGAAGGCTTTGGACTTCCGCA 524
Qy 757 CTCGCCAAATGCCAAATTAATCAATGTCTGCAACTGGATCTCTCTTCCAGCCATTTGGTC 816
Db 525 CACCCCTTGAAGGCAAGATCATCAATATCTGCAATCTGGCTGTCTGTCTATCTGTGTGCA 584
Qy 817 TTCTCTTAATGTTTCATGCTTACCAAAATACAGGCA-----GGTTCCATAGATTTGTA 870
Db 585 TCTCTGCAATAGTCTTGGAGGACCAAAAGTCAAGGAAGACGTCGATGTCTTGTGAGTGTCT 644
Qy 871 CACTAACATTTCTCTCATCCAACTGGTACTTGGGAAACC---TCGTGAAGATCTGTGTTT 927
Db 645 CTTTGAGTTTCCAGATGATGACTACTCTCTGGTGGGACCTCTTTCATGAAGATCTGCGTCT 704
Qy 928 TCATCTTTCGCTTTCATTTATGCCAGTGTCTCATATTACCTGCTGTGCTATGGACTGTATCT 987
Db 705 TCATCTTTCGCTTTCGCTGATCCCTGTCTCATCATCATCTGCTGTCTACACCTGATGATCC 764
Qy 988 TGGCCTTCAAGAGTGTCCGATGCTCTCTGGCTTCCAAAGAAAGAGACAGGATCTTCGAA 1047
Db 765 TGGCTCTCAAGAGCGTCCGCTCTTCTTGGCTCCGAGAGAAAGATCGCAACCTGCGTA 824
Qy 1048 GGATCACCAGATGTGCTGT 1107
Db 825 GGATCACCAGATGTGCTGT 884
Qy 1108 ACATTTTACGTCATCATTTAAAGCCTTGGTTACAATCCAGAAATACGTTTCCAGACTGTGTT 1167
Db 885 ACATATTTCATCTTGGTGGAGGCTCTGGGAGACCTCCACAGACAGCTGCTCTCTCCA 944
Qy 1168 CTTGGCAGCTTCTGATGCTCTAGTTTACAAACAGCTGCTTCAACCCAGTCTCTTTATG 1227
Db 945 GCTATTACTTCTGCATCGCTTAGCTTATACCAACAGTAGCGCTGAAATCCCAATCTCTACG 1004
Qy 1228 CATTTCTGGATGAAACTTCAACGATGCTTTCAGAGAGTGTCTGTATCCCAACCTCTTCCA 1287
Db 1005 CTTTCTTGTATGAAACTTCAAGCGGTGTTTCGGGACTTCTGCTTTTCCACTGAAGATGA 1064
Qy 1288 ACATTGAGCAACAAACTCCCACTCGAATTCGTGCA 1323
Db 1065 GGATGGAGCGGACAGCACTAGCAGAGTCCGAAATA 1100

RESULT 6

US-60-751-420-1861

; Sequence 1861, Application US/60751420

; GENERAL INFORMATION:

; APPLICANT: Belouchi, Abdelmajid

; APPLICANT: Raelson, John Verner

; APPLICANT: Bradley, Walter Edward

; APPLICANT: Paquin, Bruno

; APPLICANT: Fournier, Helene

; APPLICANT: Nguyen-Huu, Quynh

; APPLICANT: Croteau, Pascal

; APPLICANT: Allard, Rene

; APPLICANT: Debrus, Sophie

; APPLICANT: Van Berdewegh, Paul

; APPLICANT: Little, Randall David

; APPLICANT: Keith, Tim

; APPLICANT: Segal, Jonathan

; TITLE OF INVENTION: GeneMap of the human genes associated with Crohn's disease

; FILE REFERENCE: GENI-011/00US

; CURRENT APPLICATION NUMBER: US/60/751,420

; CURRENT FILING DATE: 2005-12-19
; NUMBER OF SEQ ID NOS: 27266
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1861
; LENGTH: 4959
; TYPE: DNA
; ORGANISM: Homosapiens
US-60-751-420-1861

```
Query Match      20.0%; Score 433.2; DB 8; Length 4959;
Best Local Similarity 66.2%; Pred. No. 4.3e-116;
Matches 659; Conservative 0; Mismatches 328; Indels 9; Gaps 2;

QY 337 CGGACCCATCGCGTCCGAACCGCACCAATCTGGGGGGAGAGACAGCCCTGTGCCCTCCGA 396
DB 327 CGGCTGGGCGGAGCCGACAGACAGCGAGCGCGCTCGGAGGAGCGGAGCTGGAGC 386

QY 397 CGGCGAGTCCCTCCATGATCAGCGGCATCAGCATATGCCCCCTCTACTCCATCGTGTGG 456
DB 387 CGGCGCACATCTCCCGGCCATCCCGGTATCATCACGGCGGTCTACTCCGTAGTGTTCG 446

QY 457 TGGTGGGGCTTCGGAACCTTCGTGTATGTATGTATGTATGTATGTATGTATGTATGTAT 516
DB 447 TCGTGGGCTTGGTGGCAACTCGCTGTCTATGTATGTATGTATGTATGTATGTATGTAT 506

QY 517 AGACTGCCACCAACTCTACATTTTCAACCTTCTCTGGCAGATGCTTAGGCCACAGTA 576
DB 507 AGACAGAACCAACATTTACATATTTAACTGGCTTTGGCAGATGCTTATGTATGTAT 566

QY 577 CCCTGCCCCCTCCAGAGTGTGAATTAACCTAATGGGAACATGGCCATTTGGAACCATCTTT 636
DB 567 CCATGCCCTTCCAGAGTACGGTCTACTTGTGAATTTCTGGCTTTTGGGATGTGTCT 626

QY 637 GCAAGATAGTATCTCCATAGATTACTATAACATGTTCACAGCATATTTACCCCTCTGCA 696
DB 627 GCAAGATAGTAATTTCCATTTGATTACTACAACATGTTCCACGACATCTTCACTTGAC 686

QY 697 CCATGAGTGTGATCGATACATGAGTCTGCACCCCTCTCAAGGCTTGTAGATTTCCGTA 756
DB 687 TGATGAGCGTGGACCGCTACATTTGGCGTGTGCCACCCCGTGAAGGCTTTGGACTTCCG 746

QY 757 CTCCCGAAATGCCAAATTTATCAATGTCTGCAACTGGATCTCTCTTCAGGCATTTGGTCT 816
DB 747 CACCCTTGAAGGCAAGATCATCAATATCTGCATCTGGCTGTGCTGTCTCATCTGTGGCA 806

QY 817 TTCCTGTAAATGTTTCAATGGCTAACAACAAATACAGGCAA-----GGTTCATAGATTGTA 870
DB 807 TCTCTGCAATAGTCTTGGAGGCACCAAAAGTCAGGGAAGACGTCGATGTCAATTGAGTGTCT 866

QY 871 CACTAACATCTCTCATCCAACTGGTACTGGGAAACCC---TCGTGAAGATCTGTGTTT 927
DB 867 CTTTGCAGTTCACAGATGATGACTACTCTCTGGTGGGACCTTTTCATGAAGATCTGGGTCT 926

QY 928 TCATCTTCGCTTCATTTATGCCAGTGTCTCATCATTTACCGTGTGCTATGGAGTATGATCT 987
DB 927 TCATCTTTGGCTTGTGATCCCTGTCTCTCATCATCATCTGTCTGTACACCCCTGATGATCC 986

QY 988 TGGCGCTCAAGAGTGTCCGATGTCTCTCTGGCTTCCAAAGAAAGGACAGGAATCTTTCGAA 1047
DB 987 TGGCTCTCAAGAGCGTCCGCTCTCTTCTGGCTCCCGAGAGAAAGATCGCAACCTTCGTA 1046

QY 1048 GGATCACAGGATGGTGTGGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 1107
DB 1047 GGATCACAGAGCTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 1106

QY 1108 ACATTTACGTTCATTAAGCCCTTGGTTACAAATCCAGAAATACAGTTCACAGCTGTGTT 1167
DB 1107 ACATATTCATCTGGTGGAGGCTCTGGGAGGACCTCCCAACAGCAGCTGTCTCTCCA 1166

QY 1168 CTTGGCACTTCTGCACTGTCTAGGTTACACAAACAGCTGCTTCAACCCAGTCTTATG 1227
DB 1167 GCTATTACTTCTGATCGCTTAGGCTATACCAACAGTAGTCCGCTGAATCCATCTCTACG 1226
```

RESULT 7

```
US-60-751-455-1983
; Sequence 1983, Application US/60751455
; GENERAL INFORMATION:
; APPLICANT: Radich, Jerald P.
; APPLICANT: Dai, Hongyue
; APPLICANT: Mao, Mao
; APPLICANT: Scheiter, Janelle
; APPLICANT: Linsley, Peter S.
; TITLE OF INVENTION: GENES ASSOCIATED WITH PROGRESSION AND RESPONSE IN
; TITLE OF INVENTION: CHRONIC MYELOID LEUKEMIA AND USES THEREOF
; FILE REFERENCE: 9301-253-888
; CURRENT APPLICATION NUMBER: US/60/751,455
; CURRENT FILING DATE: 2005-12-15
; NUMBER OF SEQ ID NOS: 7936
; SOFTWARE: FastSeq 4.01
; SEQ ID NO 1983
; LENGTH: 1167
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-751-455-1983
```

```
Query Match      8.7%; Score 187.6; DB 8; Length 1167;
Best Local Similarity 52.6%; Pred. No. 1.2e-44;
Matches 440; Conservative 0; Mismatches 384; Indels 12; Gaps 1;

QY 424 TCACGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAATCTTCTCG 483
DB 143 TCGCTATCCAGTGACTACGGCTGTGTGCTGTGGGGCTGTGGGGCAACGCCCTGG 202

QY 484 TCATGTATGTATGTGTGATACACAGATGAAAGTACCAACATCTACATTTTCA 543
DB 203 TCATCTTGTGTATCTTCTGCTACGCAAGATGAAGACGCTACCACTCTACCTGCTCA 262

QY 544 ACCTTGTCTGTGCAGATGCTTTAGCCACCCAGTACCTGCCCTTCAGAGTGTGAATFAC 603
DB 263 ACCTGGCGTAGCCGAGCTCTTCACTGCTGCGCGCGGTGTGTGGCTGTGGCGCG 322

QY 604 TAATGGGAACATGGCCATTTTGAACCATCTCTTTGCAAGATAGTGTATCTCCATAGATTACT 663
DB 323 CCCTGGCCACTGGCCCTTCGGCTCGTGTGCGCGCGGTGTGTGGCTGTGGCGCG 382

QY 664 ATAAATGTTTCAACGATATTTCAACCTCTGCAACATGATGTGTGATCATATGTCAG 723
DB 383 TCAACATGTTTCAACGCGTCTTCTGTCTCACCGTGTCTAGCGTGGACCGCTAGTGGCG 442

QY 724 TCTGCGCCCTCTCAAGGCTTTAGATTTCCGTTACTCCCGAAATGCAAAATTTATCAATG 783
DB 443 TGGTGCACCTCTGCGCGCGGACCTACCGCGCGCCAGCGTGGCCAAAGCTCATCAACC 502

QY 784 TCTGCAACTGGATCTCTCTTTCAGCCATTTGGTCTTCTGTGTAATGTTTATGGCTTACAA 843
DB 503 TGGGCGTGTGGCTGGCATCCCTGTGTGGTCACTCTCCCATCGCCATCTTTCGAGACACCA 562

QY 844 AATAAGGCAAGTTCATATGATTTGTACACTAACTTCTCTCATCAACCTGGTACTGGG 903
DB 563 GACCGCTCGCGCGCGGCGGCGGCTGTGCAACCTGCAAGTGGGCCACACCGCGGCTGT 622

QY 904 AAAACCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAATATGCGAGTCTCATCTTCA 963
DB 623 CGCGAGTCTTCTGTGTGTACACTTCTCTGCTGGGCTTCTGCTGCCGCTGTGGCCATTTG 682

QY 964 CGGTGTGTATGGATGTATGATCTTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
```

```
Db 683 GCCTGTGCTACTGCTCATCGTGGGGAAGATGCGCGCGCTGGCGCTGGCTGGC 742
Qy 1024 AAGAAAAGGACAGGAATCTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGT 1083
Db 743 AGCAGCGCAGCGCTCGGAGAAGAAAATCACAGGCTGGTGGTGGTGGTGGTGGT 802
Qy 1084 TCATGCTGCTGCTGCACTCCCATTCACATTTACGTTCATCAATAAAGCCTTGGTTACAATCC 1143
Db 803 TTGTGCTGCTGATGAGCTTTTCTACGTGGTGGAGCTGCTGAACCTGCTGACAGCC 862
Qy 1144 CAGAACTACGTTCCAGACTGTTTCTTGGGACATTTGCGATGCTCTAGGTTACAAAACA 1203
Db 863 TTGATGCCACCGTCAAC-----CACGTGCTCCCTTATCCTCAGCTATGCCAACA 910
Qy 1204 GCTGCTCAACCCAGCTTTTATGCAATTTCTGGATGAACCTTCMAACGATGCTTC 1259
Db 911 GCTGCGCCAAACCTATTCTCTATGGCTTCTCTCCGACAACTTCGCGCGATCTTTC 966

RESULT 8
US-60-751-420-2833
; Sequence 2833, Application US/60751420
; GENERAL INFORMATION:
; APPLICANT: Belouchi, Abdelmajid
; APPLICANT: Raelson, John Verner
; APPLICANT: Bradley, Walter Edward
; APPLICANT: Paquin, Bruno
; APPLICANT: Fournier, Helene
; APPLICANT: Nguyen-Huu, Quynh
; APPLICANT: Croteau, Pascal
; APPLICANT: Allard, Rene
; APPLICANT: Debrus, Sophie
; APPLICANT: Van Berdewegh, Paul
; APPLICANT: Little, Randall David
; APPLICANT: Keith, Tim
; APPLICANT: Segal, Jonathan
; TITLE OF INVENTION: GeneMap of the human genes associated with Crohn's disease
; FILE REFERENCE: GENI-011/00US
; CURRENT APPLICATION NUMBER: US/60751,420
; CURRENT FILING DATE: 2005-12-19
; NUMBER OF SEQ ID NOS: 27266
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2833
; LENGTH: 4343
; TYPE: DNA
; ORGANISM: Homosapiens
US-60-751-420-2833

Query Match 8.4%; Score 182.4; DB 8; Length 4343;
Best Local Similarity 50.6%; Pred. No. 8.2e-43;
Matches 503; Conservative 0; Mismatches 476; Indels 15; Gaps 2;

Qy 269 CTCAGTTGCTCCCGCAGCACCAGCCCGGTTCTCGGTCACATTTGCCCACCTPAGATGG 328
Db 638 CTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 697
Qy 329 CAACCTGTCCAGCCATCGGTGCGAACCGACCAATCTGGCGGGAGAGACAGCCCTGTG 388
Db 698 CAGGGGCCCCGGGGCGCGCTGCGGAGCGGATGGAGAGCCAGCGGAAATGCGTCCCA 757
Qy 389 CCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAGATCATGCCCTCTACTCCAT 448
Db 758 GAACGGGACCTTGAGCGAGGCGCCAGGGCAGGCGCCATCTGATCTCTTTCTACTCTCGT 817
Qy 449 CGTGTGGTGGTGGGGCTCTTCGGAAACTTCTCGTCAATGATGATGATGATGATGATGATGAT 508
Db 818 GGTGTGCTGTGGGGCTGTGTGGAACTCTATGTCATCTACGTGATCTCTGCGCTATGC 877
Qy 509 CAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGCCCTAGC 568
Db 878 CAAGATGAAGCGGCCACCAACATCTACATCTAAATCTGGCCATTTGCTGATGAGTGTCT 937
Qy 569 CACCAGTACCTGCTCCCTTCCAGAGTGTGAATTACCTAATGGGAACATGGCCGATTTGGNAC 628
```

```
Db 938 CATGCTCAGCGTGGCGCTTCTCTAGTCACCTCCACGTTGTTGCGCCATGGGCCCTTCGGTGC 997
Qy 629 CATCTTTTCAAGATAGTGTATCTCCATAGATTACTATAACATGTTTCCACGACATATTCCAC 688
Db 998 GCTGCTCTCCCGCTCGTCTCAGCGTGAACGGGTCAACATGTTTCCACGACATCTACTG 1057
Qy 689 CTTCTGCACCATAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 748
Db 1058 TCTGACTGTGCTCAGCGTGGACCGCTACGTTGGCGGTGGTGCATCCCATCAAGCGCGGCCG 1117
Qy 749 TTTCCGTACTCCCGGAAATGCGAAATTTATCATGTTCTGCAACTGATCTCTCTCTCAGC 808
Db 1118 CTACCGCGCGCCACCGCTGGCCAAAGGTAGTAAACCTGGGCGTGGTGGTGGTGGTGGTGGT 1177
Qy 809 CATTTGTTCTTCTGTAAATGTTTATGCT---ACAACAAAATACAGGCAAGTTCATAGATA 865
Db 1178 CGTCATCTCGCCCATCGTGTCTTCTCTGCAACCGCGGCCAACAGCGACGCGCGGTGGC 1237
Qy 866 TTGTACACTAACATTTCTCTCATCCAACTGGTACTCGGAAACCTCGTGAAGATCTGTGT 925
Db 1238 TTGCAACATGCTCATGCCAGAGCCGCTCAACGCTGGTGGTGGTGGTGGTGGTGGTGGTGG 1297
Qy 926 TTTTCATCTTCGCTTCATTTATGCCAGTGTCTCATTCATTCATTCATTCATTCATTCATTCAT 985
Db 1298 ATTTCTCATGGGCTTCTCTGCTGGCGGTATCTGCTGTGGTGGTGGTGGTGGTGGTGGTGG 1357
Qy 986 CTTGCGCTCAAGAGTGTGGCATGCTCTCTGCTCCAAAGAAAGACAGGAATCTTTCG 1045
Db 1358 TGTAAAGATGCGCATGTTGGCCCTCAAGGCGGCTGGCAGCAGCGGACGCTCGGAGCG 1417
Qy 1046 AAGGATCAGCAGGATGCTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1105
Db 1418 CAAGATCACCTTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1477
Qy 1106 TCACATTTACGTCACTTAAGCCCTTGGTTACATCCCGAAGAACTACGTTCCAGATGCT 1165
Db 1478 CTACGTGGTGCAGCTGGTCAACGCTTGTGCTGAGCAGGACGACGCCACCGTGA----- 1530
Qy 1166 TTTCTGGCACTTCTGCAATGCTCTAGTGTACAAACAGCTGCTCAACCCAGTCTTTTA 1225
Db 1531 -----GTCAGCTGCGGTGATCTCGGCTATGCAACAGCTGGCCACCCCATCTCTA 1585
Qy 1226 TGCATTTCTGGATGAAAACCTTCAACGATGCTTC 1259
Db 1586 TGGCTTTCTCTCAGACAACTTCAAGCGCTCTTTC 1619
```

RESULT 9

```
US-60-751-455-2819
; Sequence 2819, Application US/60751455
; GENERAL INFORMATION:
; APPLICANT: Radich, Gerald P.
; APPLICANT: Dai, Hongyue
; APPLICANT: Mao, Mao
; APPLICANT: Schelter, Janell
; APPLICANT: Linsley, Peter S.
; TITLE OF INVENTION: GENES ASSOCIATED WITH PROGRESSION AND RESPONSE IN
; CURRENT APPLICATION NUMBER: 9301-253-888
; FILE REFERENCE: CHRONIC MYELOID LEUKEMIA AND USES THEREOF
; CURRENT FILING DATE: 2005-12-15
; NUMBER OF SEQ ID NOS: 7936
; SOFTWARE: FastSeq 4.01
; SEQ ID NO 2819
; LENGTH: 1002
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-751-455-2819
```

```
Query Match 7.5%; Score 161.6; DB 8; Length 1002;
Best Local Similarity 51.6%; Pred. No. 4.4e-37;
Matches 424; Conservative 0; Mismatches 389; Indels 9; Gaps 2;
```

```
QY 435 GCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAAACTTCCTGGTCAATGATG 494
Db 148 GCGGTACTCCGGGATCTGTGTGGGCTGACTGGCAACACGGCCGTCACTTGTGA 207
QY 495 ATTGTGAGATACACCAAGATGAAGACTGCGACCAACATCTACATTTTCAACCTTGTCTG 554
Db 208 ATCTAAGGGCGCCCAAGATGAAGACGGTGACCAACGTGTTCATCTGAACTTGGCCGTC 267
QY 555 GCAGATGCTTAGCCACCAAGTACCTTCCCTTCCAGAGTGTGAATTAACCTTAATGGGAACA 614
Db 268 GCGACGGGCTCTTACGCTGTGACTGCGCGTCAACATCGCGAGCACCTGTCTGCAGTAC 327
QY 615 TGGCCATTTGGAAACCATCTTTCGAAGATAGTAGTCTCCATAGATTACTATAACATGTTTC 674
Db 328 TGGCCCTTCGGGAGCTGCTCTGCAAGCTGGTCTGGCCGTGCAACACTACAACTATCTTC 387
QY 675 ACCAGATATTCACCCCTCTGCACCATGAGTGTGTGATCGATACATATTCAGTCTGCCACCT 734
Db 388 TCCAGATCTACTTCTAGCCGTGATGAGGTGGACCGATACCTGGTGTGTGGCCACC 447
QY 735 GTCAAGGC-----CTTAGATTTCCGTACTCCCGGAAATGCCAAATTAATCAATGTCTGC 788
Db 448 GTGAGTCCCGGCACATGCCCTGGCGCACCTACCGGGGGCGAAGGTGCGCACCTGTGT 507
QY 789 AACTGGATCCTCTCTTCAGCCATTTGCTCTCTGTAATGTTTATGGCT---ACAAACAAA 845
Db 508 GTCTGCTGGGCTGACGGTCTGGTCTTCTGCTTCTCTCTTTCTGCTGGGCTTACAGC 567
QY 846 TACAGGCAAGGTTCCATAGATTGTACACTAAATTTCTCTCATCCAACTGGTACTGGGAA 905
Db 568 AAGGAGCTGCAGTCCCAAGCTGTGGCTGAGCTTCCCGTGGCCCGAGCAGGTCTGGTTC 627
QY 906 AACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCGAGTGTCTCATFTACC 965
Db 628 AAGGCCAGCGGTCTTACACGTTGGTCTCTGGGCTTCTGCTGCTGCGGCTGTGCACCATCTGT 687
QY 966 GTGTGCTATGGTGAATGATCTTGGCGCTCAGAGTGTCCGATGCTCTCTGCTGCCAAA 1025
Db 688 GTGCTCTACAGACCTCTCTGGCAGGCTGCGGCGCTGCGGCTCTGAGGCAAG 747
QY 1026 GAAAGGACAGGAATCTTCGAAGGATCACCAGAGTGTGCTGTGGTGGTGGTGTGTTC 1085
Db 748 GCTCTAGGCAAGCCAGGCGGAAGTGACCGTCTGTCTCTGCTGTGCTGGCCGTGTC 807
QY 1086 ATGCTGTGTAATCCCATTTACATTTAGTCAATTAAGCTTAAAGCTTGGTTTCAATFCCA 1145
Db 808 CTCCTCTGTGGACGCTTCCACCTGGCTCTGTGCTGGCCCTGACCAACGACCTGCCC 867
QY 1146 GAAACTACGTTCCAGACTGTTCTTGGCACTTCTGCAATTCGATTCAGTTTACACAAACAGC 1205
Db 868 CAGACCCCACTGGTCACTAGTATGTCTCCTAGCTATCACCAGCTCTAGTACGCCAACTCG 927
QY 1206 TGCTCAACCCAGTCTCTTATGATTTCTGGATGAAACTTC 1247
Db 928 TGCTGAAACCCCTCTCTAAGCTTTCTAGATGACAACTTC 969
```

RESULT 10
US-60-751-420-1859

; Sequence 1859, Application US/60751420

; GENERAL INFORMATION:

; APPLICANT: Belouchi, Abdelmajid
; APPLICANT: Raelson, John Verner
; APPLICANT: Bradley, Walter Edward
; APPLICANT: Paquin, Bruno
; APPLICANT: Fournier, Helene
; APPLICANT: Nguyen-Huu, Quynh
; APPLICANT: Croteau, Pascal
; APPLICANT: Allard, Rene
; APPLICANT: Debrus, Sophie
; APPLICANT: Van Berdewegh, Paul
; APPLICANT: Little, Randall David

; APPLICANT: Keith, Tim
; APPLICANT: Segal, Jonathan
; TITLE OF INVENTION: Genemap of the human genes associated with Crohn's disease
; FILE REFERENCE: GENI-011/00US
; CURRENT APPLICATION NUMBER: US/60/751,420
; CURRENT FILING DATE: 2005-12-19
; NUMBER OF SEQ ID NOS: 27266
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1859
; LENGTH: 987
; TYPE: DNA
; ORGANISM: Homosapiens
; US-60-751-420-1859

Query Match 6.9%; Score 149; DB 8; Length 987;

Best Local Similarity 49.6%; Pred. No. 2.1e-33; Mismatches 415; Indels 6; Gaps 1;

Matches 414; Conservative 0; Mismatches 415; Indels 6; Gaps 1;

```
QY 439 TCTACTCCATCGTGTGGTGGGCTCTTCGGAAACTTCCTGGTCAATGATG 498
Db 128 TCTACGCGGTGATCTGCGCGGTGGTCTGGCGGGCACTCCGCGGTGCTGACGTGTTC 187
QY 499 TCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAG 558
Db 188 TCGGGCGCGCCCGCATGAAGACCGTCAACCACTGTTCATCTCAACCTTGGCATCGCG 247
QY 559 ATGCCCTTAGCCACAGTACCTTCCCTTCCAGAGTGTGAATTAACCTTAATGGGAACATGCG 618
Db 248 ACGAGCTCTTCAACGCTGGTGTGCCCATCAACATCGCGACTTCTGTGCGGCAAGTGC 307
QY 619 CATTTGGAACCATCTTTTGCAGATAGTAGATCTCCATAGATTACTATAACATGTTCCACA 678
Db 308 CTTTCGGGGAGCTCATGTGCAAGCTCATCGTGGCTATCGACCAGTACAACTTCTCCA 367
QY 679 GCAATTCACCTCTGACCACTAGTGTGATGATGATGATGATGATGATGATGATGATGATGATG 738
Db 368 GCTCTACTTCTCACCCTCATGAGCGCGACCGCTACCTGTGTGTGTGTGTGTGTGTGTGTGT 427
QY 739 AGGC-----CTTAGATTTCCGTACTTCCCGGAAATGCGCAAAATTAATGATGTCGCAACT 792
Db 428 AGTCGCGCGGGTGGCGCGCGCATCTACAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 487
QY 793 GGATCCTCTCTTTCAGCCATTTGCTTCTCTGTAATGTTTATGCTGTACAAACAAATACAGCG 852
Db 488 GGGGGATCGTCAACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 547
QY 853 AAGGTTCCATAGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 912
Db 548 AGGGCGCGCGCGCGCGCGCGCTAGTCTTTTCCGACGCGCGCGCGCGCGCGCGCGCGCGCG 607
QY 913 TGAAGATCTGTTTTTTCATCTTCCGCTTTCATTTATGCGAGTGTCTATACCGTGTGCT 972
Db 608 GCGGCTCTACACGCTGCTGCTGGGCTTCCGCTTCCGCTTCCGCTTCCGCTTCCGCTTCCG 667
QY 973 ATGACTGATGATCTTGGCGCTTCAAGAGTGTCCGATGCTCTCTGGCTTCAAGAAAGAG 1032
Db 668 ATACCACCTCTGCTGCTGGGCTGATGCCATGCGGCTGGACAGCACGCGCGCGCGCGCG 727
QY 1033 ACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 1092
Db 728 AGCGCGCGCAAGAGCGGGTGACTTCTCTGGTGGTGGCAATCTCTGGCGGTGTGGCTCTCT 787
QY 1093 GCTGACCTCCCATTTACATTTACGTTTACGTTTAAAGCTTGGTGTGTGTGTGTGTGTGTGT 1152
Db 788 GCTGGACCGCTTACCACTGAGCACCGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 847
QY 1153 CGTTCAGACTGTTTTTCTTGGCACTTCTGCAATGCTCTAGGTTTACAAACAGTGTGCTTCA 1212
Db 848 CGCTGCTCATCGTATCTCTTACTTATCATCCAGCTGTAGCTTACGCCAACAGCTGCTCA 907
QY 1213 ACCCAGTCTTTTATGATTTCTGGAATGAAACTTCAACAGATGCTTTAGAGAGTT 1267
Db 908 ACCCTTCTCTTACGCTTCTCTGGACGCGCAGCTTCCGCGAGGAACCTTCCGCCAGCT 962
```

```
RESULT 11
US-60-740-736-19
; Sequence 19, Application US/60740736
; GENERAL INFORMATION:
; APPLICANT: Cottrell, Susan
; APPLICANT: Model, Fabian
; APPLICANT: Haefliger, Carolina
; APPLICANT: Weiss, Gunter
; APPLICANT: Distler, Juergen
; APPLICANT: Sledziwski, Andrew Z.
; APPLICANT: Song, Xiaoling
; APPLICANT: Skillman, Tom
; APPLICANT: Thomas, Jeff
; TITLE OF INVENTION: METHODS AND NUCLEIC ACIDS FOR THE ANALYSIS OF GENE EXPRESSION ASSOCIATED WITH THE PROGNOSIS OF PROSTATE CELL PROLIFERATIVE DISORDERS
; FILE REFERENCE: 47675-158
; CURRENT APPLICATION NUMBER: US/60740,736
; CURRENT FILING DATE: 2005-11-30
; NUMBER OF SEQ ID NOS: 978
; SEQ ID NO 19
; LENGTH: 7563
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-60-740-736-19

Query Match      6.9%; Score 149; DB 8; Length 7563;
Best Local Similarity 49.6%; Pred. No. 6.5e-33;
Matches 414; Conservative 0; Mismatches 415; Indels 6; Gaps 1;

QY 439 TCTACTCATCGTGTGGTGGGCTCTTCGGAACTTCTGTCTCATGTATGTGATTG 498
DB 5331 TCTACGGCGGTGATCTGCCCGGTGGTCTGGCGGGCACTCTCGCGTGTGTACGTGTTC 5390
QY 499 TCAGATACACCAAGATGAAGACTGCGCACCAACATCTACATTTTCAACCTTCTCTGGCAG 558
DB 5391 TGGGGGCGCGCGATGAAGACCGTCCACCACTTCTCATCTCAACCTGGCCATGGCGG 5450
QY 559 ATGCGTTAGCCACCAAGTACCTTCCGCTTCAGAGTGTGAATTAACCTTAATGGGAATGGC 618
DB 5451 ACGAGCTTTCACGCTGTGTGCTGCCCATCAACATCGCCGACTTCTGTCTGGCGAGTGGC 5510
QY 619 CATTTGGAAACCATCTTTTGCAGATAGTATCTCCATAGATTACTATTAACATGTTTCAACA 678
DB 5511 CTTTGGGGAGTCTATGTGAAGTCTCATGTGGCTATCGACGATGACCAACCTTCTTCCA 5570
QY 679 GCATATTCAACCTCTGACCACTAGTGTGTGATGATGATGATGATGATGATGATGATGATGAT 738
DB 5571 GCCTCTACTTCTACCGTCTATGAGCGCGACCGCTACTCTGTGTGTGGCCATGCGG 5630
QY 739 AGGC-----CTTAGATTTCGTACTCCCGGAAATGCCAAATTAATCAATGTCTGCAACT 792
DB 5631 AGTCGCGCGGTGGCGCGCACCTACAGCGCGCGCGCGGTGAGCCTGGCGGTGT 5690
QY 793 GGATCCTCTTTCAGCGATTTGTCTTCTGTAAATGTTTCAATGCTATCAACAAATACAGCG 852
DB 5691 GGGGATCGTCACACTCTGTGTGTGCTTCCGAGTCTTTCGCGCGGTGAGCGTGTGAGCGAGC 5750
QY 853 AAGGTTTCCATAGATTGTACACTAAACATTTCTCTATCCAACTGTGTACTGGGAAACCTTCG 912
DB 5751 AGGGCGGGCGCGAGTGGTGTAGTCTTCTTCGCGACCGGAGCGCTTCTGTGGCGCGGA 5810
QY 913 TGAAGATCTGTGTTTTCATTTTCGCTTCAATATGCGAGTGTCTATCAATACCGTGTGCT 972
DB 5811 GCCGCTCTTACACGCTGTGTGGGCTTCGCGATCCCGGTGTCACCATCTGTGTCTCT 5870
QY 973 ATGGACTGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGG 1032
DB 5871 ATACCACCTGTGTGGCGGTGTCATGCGCTGGACGACCGCACGAGGCGGCGCTGG 5930
QY 1033 ACAGGAATCTTCGAAGGATCACAGGATGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1092
```

```
Db 5931 AGCGGCCAAGAACGGGTGACCTTCTGTGTGTGGCAATCCTTGGCGGTGTGCTCTCT 5990
QY 1093 GCTGGACTCCCATTTACATTTACGTTCATCATTAAGCGCTTGGTTACAAATCCAGAAACTA 1152
Db 5991 GCTGGACGCGCTACCACTGAGCACCGTGTGGCGTCCACCAGACTCCCGCAGACGC 6050
QY 1153 CGTTCCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGTCTTAGTTACACAAACAGCTGCCCTCA 1212
Db 6051 CGCTGGTTCATCGCTATCTCTCTACTTATCATCAGCGCTGAGCTAGCGCAACAGCTGCCCTCA 6110
QY 1213 ACCAGTCTTTATGATTTCTGATGAAACTTTCAACAGATGCTTCCAGAGAGTT 1267
Db 6111 ACCCTTCTCTAGCCTTCTGAGCCAGCTTCCGAGGAACCTCCGCCAGCT 6165

RESULT 12
US-60-751-455-1982
; Sequence 1982, Application US/60751455
; GENERAL INFORMATION:
; APPLICANT: Radich, Gerald P.
; APPLICANT: Dai, Hongyue
; APPLICANT: Mao, Mao
; APPLICANT: Schelter, Janell
; APPLICANT: Linsley, Peter S.
; TITLE OF INVENTION: GENES ASSOCIATED WITH PROGRESSION AND RESPONSE IN CHRONIC MYELOID LEUKEMIA AND USES THEREOF
; FILE REFERENCE: 9301-253-888
; CURRENT APPLICATION NUMBER: US/60751,455
; CURRENT FILING DATE: 2005-12-15
; NUMBER OF SEQ ID NOS: 7936
; SOFTWARE: FastSeq 4.01
; SEQ ID NO 1982
; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-751-455-1982

Query Match      6.6%; Score 143; DB 8; Length 1257;
Best Local Similarity 48.6%; Pred. No. 1.4e-31;
Matches 423; Conservative 0; Mismatches 445; Indels 3; Gaps 1;

QY 415 TCAGGGCATCAGCATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 474
DB 125 TCAGTGGCGTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 184
QY 475 ACTTCTGGTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 534
DB 185 ACTCGTGGTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 244
QY 535 ACATTTTCAACCTTGTCTGTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 594
DB 245 ACATCTCAACCTGCGCTGCGCGAGCTCTTTCATGCTGGGCTGCGCTTCTCTGCGCG 304
QY 595 TGAATTAACCTTAATGGGAACATGCGCATTTGGAACTTTGCAATGATGATGATGATGATGAT 654
DB 305 CCCAGAACGCGCTTCTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 364
QY 655 TAGATTACTATAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 714
DB 365 TGGATGGCATCAACCAAGTTTCCAGCATATTTCTGCTGACTGTCTATGAGCGTGGACCGCT 424
QY 715 ACATTGAGTCTGCGACCGCTTCAAGGCTTTAGATTTTCCGTAATTCCTCCGAAATGCCAAA 774
DB 425 ACCTGCGGTGATACATCCACCGCTGCGCGCGCTGCGCGCACAGCTCCGCTGGCGCGCA 484
QY 775 TTATCAATGCTGCAACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 834
DB 485 CGGTGAGCGCGCTGTGTGGGTGGCTCAGCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 544
QY 835 CTACACAAAATACAGGCAAGTTCCATAGATTGTACACTAATCTTCTCATCACTCAACT 894
DB 545 CGGAGTGTCCCGCGGATGAGCACTGCCCATGATGATGATGATGATGATGATGATGATGATGAT 604
```

Qy	895	GGTACTGGGAAAACCTCGTGAAGATCTGTGTTTTTCATCTTTCGCCTTCATTATGCCATGCG	954
Db	605	GGCAGACGGCGTTTCATCATCTACACGCGCGCACCTGGGCTTTCTTCGGGCCGTGCTGTGTC	664
Qy	955	TCATCATTTACCGTGTGCTATGGACTGATGATCTTCGCGCTCAAGAGTGTCCGCAATGCTCT	1014
Db	665	TCTGCCTCTGTCTACTCGCTCATCTGTGTGAAGTGTGCGTCACTGGCGCGCGGTGTGGG	724
Qy	1015	CTGGCTCCAAAGAAAAGACAGG---AATCTTCCGAGGATCACAGGATGGTGTCTGTGTGG	1071
Db	725	CACCTCGTGCCAGCGGCGCGCGCTCCGNAACGACAGGTCACGCGCATGTGTGTGGCCG	784
Qy	1072	TGTFGGCTGTGTTTCATCGTCTGTCTGGACTCCCATTCACATTTACGTTCATCATTAAGCCCT	1131
Db	785	TGTTGGCGCTCTTCGTGCTCTGTCTGGATGCGCTTCTACGTGTCAACATCGTCAACGTGG	844
Qy	1132	TGGTTACAATCCAGAAACTACGTTTCAGACTGTTTTCTTGGCACTTCTGCATTTGCTCTAG	1191
Db	845	TGTGCCACCTGCCGAGAGCGCTGCTTCTTTGGGCTCTACTTCTCGTGGTGGTGGCGCTGC	904
Qy	1192	GTTACACAAACAGCTGCCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAAACCTTCAAAC	1251
Db	905	CCTATGCCAACAGCTGTGCCAACCCCATCTTTATGGCTTCCCTCTCCTACCGCTTCAAGC	964
Qy	1252	GATGCTTTCAGAGTTCGTATGCCAACCTC	1282
Db	965	AGGCGCTTCCGACGGGTCTCTGTGGGGCCCTC	995

RESULT 13

```

US-60-742-219-749
; Sequence 749, Application US/60742219
; GENERAL INFORMATION:
; APPLICANT: Belouchi, Abdelmajid
; APPLICANT: Raelson, John Verner
; APPLICANT: Bradley, Walter Edward
; APPLICANT: Paquin, Bruno
; APPLICANT: Nguyen-Huu, Quynh
; APPLICANT: Croteau, Pascal
; APPLICANT: Allard, Rene
; APPLICANT: Little, Randall David
; APPLICANT: Keith, Tim
; APPLICANT: Cousineau, Johanne
; APPLICANT: Eerdewegh, Paul Van
; APPLICANT: Segal, Jonathan
; TITLE OF INVENTION: Gene Map of the Human Genes Associated with Psoriasis
; FILE REFERENCE: 306522-2000
; CURRENT APPLICATION NUMBER: US/60742,219
; CURRENT FILING DATE: 2005-12-05
; NUMBER OF SEQ ID NOS: 7303
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 749
; LENGTH: 2123
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-742-219-749

```

RESULT 14

RESULTS 14
US-60-740-736-102/c

US-60-740-738-102/C
: Sequence 102: Application US/60740736

: GENERAL INFORMATION:

APPLICANT: Cottrell, Susan

```

; ALLEBENT: COCCOZZI, Sabar
; APPLICANT: Model, Fabian

```

APPLICANT: Haefliger, Carolina

; APPLICANT: Weiss, Gunter

APPLICANT: Distler, Juergen

; APPLICANT: Sledziewski, Andrew Z.

APPLICANT: Song, Xiaoling

APPLICANT: Skillman, Tom

APPLICANT: Thomas, Jeff

; TITLE OF INVENTION: METHODS AND NUCLEIC ACIDS FOR THE ANALYSIS OF GENE EXPRESSION AS

; TITLE OF INVENTION: WITH THE PROG

; FILE REFERENCE: 47675-158

; CURRENT APPLICATION NUMBER: US/6

; CURRENT FILING DATE: 2003-07-01

; NUMBER OF SE
; SEC TO NO 102

```

; SEQ ID NO 102
: LENGTH: 7563

```

```

; LENGTH: 7
; TYPE: DNA

```

; : TYPE: DNA
; : ORGANISM: Artificial Sequence

;
ORGANISM: ALLICIAL SEQUENTIA
:
FEATURE:

; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-60-740-736-102

Query Match 4.7%; Score 100.6; DB 8; Length 7563;
Best Local Similarity 46.0%; Pred. No. 9.1e-19;
Matches 383; Conservative 0; Mismatches 444; Indels 6; Gaps 1;

Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACTTCC 480
Db |||||
Qy 2251 CGATAACTATACCAATTATCTACGCGATAATCTACGCCGTAATCTTAACGAACACTCCG 2192
Db |||||
Qy 481 TGGTCATGTATGTGATGTGCAGATACACCAAGATGAAGACTGGCCACCAACATCTACATTT 540
Db |||||
Qy 2191 CCGTACTATAGTATTACTACGACGCGCCGCATATAAACCCTACCACTTATCATCC 2132
Db |||||
Qy 541 TCAACCTTGTCTGGCAGATGCTTACGACACCGAGTACCTGCGCTTCCAGAGTGTGAATT 600
Db |||||
Qy 2131 TCAACCTTAACCATCGCGCAGAACTCTTACGCTTAATACTACCCTCAACATCGCGACT 2072
Db |||||
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTCTTGCAGATAGTATCTCCATAGATT 660
Db |||||
Qy 2071 TCCTACTACGACATAAACCTTTCGAAAACTCATATACAACTCATCGTAACATTCGACC 2012
Db |||||
Qy 661 ACTATAACATGTTTACCAGCATATTTACCCCTCTGCACCATGAGTGTGTGATCGATATTG 720
Db |||||
Qy 2011 AATACAACACTTCTCCAACTCTACTTCTCACCCTATACGCGCGCTACCTAA 1952
Db |||||
Qy 721 CAGTCTGCCACCTGTCAAGC-----CTTAGATTTCCGTACTCCCGGAAATGCCAAAA 774
Db |||||
Qy 1951 TAATATTAAACCACTACGAAATCGCGCGAATAACCGACCGCACCTACAACGCGCGCGG 1892
Db |||||
Qy 775 TTATCAATGTCTGAACCTGGATCTCTCTTCAGCCATTTGCTCTCTCTGTAATGTTCTATGG 834
Db |||||
Qy 1891 CGATAAACCTTAACCGTATAAATAATCGTCACTCGTCTGTAACCTTTCGCAATCTTCG 1832
Db |||||
Qy 835 CTACAACAAATACAGGAGTTTCCATAGATTGTACACTAAACATTTCTCTCATCCAACT 894
Db |||||
Qy 1831 CCGACTTAACGACGAACAAACCGACCGCAATACGTAATCTTTCCGCAACCGGAA 1772
Db |||||
Qy 895 GGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTGGCCTTCATTATGCCAGTGC 954
Db |||||
Qy 1771 CTTTCTAATAACGCGGAAACCGCTCTACAGCTCGTACTAAACTTCGCCATCCCGTAT 1712
Db |||||
Qy 955 TCATCATACCGTGTGATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCT 1014
Db |||||
Qy 1711 CCACCATCTATCTCTATACCAACCTTACTATACCGACTACATACCATAGCAATAACA 1652
Db |||||
Qy 1015 CTGCTCCAAAGAAAGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGG 1074
Db |||||
Qy 1651 ACCACGCAAAACCTTAACGCGCAAAACGAATAACCTTCTTAATAACATTC 1592
Db |||||
Qy 1075 TGGCTGTGTTTCATCGTCTGCTGGACTCCCATTTACATTTACGTCATCATTTAAAGCCTTGG 1134
Db |||||
Qy 1591 TAAAGATATACCTCTCTACTATAACGCGCTTACCACCTAAACACGTAATAACGCTCACCA 1532
Db |||||
Qy 1135 TTACAATCCGAAACTAGTTTCAGACTGTTTCTTGGCACTTTCGCACTTCTAGTCTTAGTT 1194
Db |||||
Qy 1531 CCGACCTCCCGCAAAACGCGCTAATCATCGTATCTCTACTTTCATCACCAACCTAACT 1472
Db |||||
Qy 1195 ACACAACAGTGTCTCAACCGAGTCTTTTATGATTTCTGGATGAAAACTTC 1247
Db |||||
Qy 1471 ACGCAACAACTACTCTAACCCCTTCTCTAGGCTTCTTAACGCGCACTTC 1419
Db |||||

RESULT 15
US-60-740-736-230/c
; Sequence 230, Application US/60740736
; GENERAL INFORMATION:
; APPLICANT: Cottrell, Susan
; APPLICANT: Model, Fabian
; APPLICANT: Haefliger, Carolina
; APPLICANT: Weiss, Gunter
; APPLICANT: Disler, Juergen

; APPLICANT: Sledziewski, Andrew Z.
; APPLICANT: Song, Xiaoling
; APPLICANT: Skillman, Tom
; APPLICANT: Thomas, Jeff
; TITLE OF INVENTION: METHODS AND NUCLEIC ACIDS FOR THE ANALYSIS OF GENE EXPRESSION AS
; FILE OF INVENTION: WITH THE PROGNOSIS OF PROSTATE CELL PROLIFERATIVE DISORDERS
; FILE REFERENCE: 47675-158
; CURRENT APPLICATION NUMBER: US/60/740,736
; CURRENT FILING DATE: 2005-11-30
; NUMBER OF SEQ ID NOS: 978
; SEQ ID NO 230
; LENGTH: 7563
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-60-740-736-230

Query Match 4.3%; Score 94; DB 8; Length 7563;
Best Local Similarity 44.7%; Pred. No. 7.7e-17;
Matches 413; Conservative 0; Mismatches 505; Indels 6; Gaps 1;

Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACTTCC 480
Db |||||
Qy 2251 CAATAACTATACCAATTATCTACACAATAATCTACACCATAAATCTTAACAAACAACTCCA 2192
Db |||||
Qy 481 TGGTCATGTATGTGATGTGCAGATACACCAAGATGAAGACTGGCCACCAACATCTACATTT 540
Db |||||
Qy 2191 CCATCTATACATATTACTACAAACGCCCAATATAAACCATCACCACTTATCATCC 2132
Db |||||
Qy 541 TCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCCTGCGCTTCCAGAGTGTGAATT 600
Db |||||
Qy 2131 TCAACCTAACCATCACCAACAAACTCTTACACTAATACTACCCTCAACATCACCAACT 2072
Db |||||
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTCGAAGATAGTATCTCCATAGATT 660
Db |||||
Qy 2071 TCCTACTACAACAAATAACCCCTTCAAAAACTCATATACAAACTCATATAACTATCAACC 2012
Db |||||
Qy 661 ACTATAACATGTTTACCAGCATATTCACCCCTCTGCACCATGAGTGTGTGATCGATACATTG 720
Db |||||
Qy 2011 AATACAACCTTCTCCAACTCTACTTCTCACCCTATACCAACCAACCACTACCTAA 1952
Db |||||
Qy 721 CAGTCTGCCACCTGTCAAGC-----CTTAGATTTCCGTACTTCCCGGAAATGCCAAAA 774
Db |||||
Qy 1951 TAATATTAAACCACTACAAATACACCAAAATACCAACCAACACCTACAACACACACACA 1892
Db |||||
Qy 775 TTATCAATGTCTGAACTGGATCTCTCTTCCAGCATTTGCTCTCTCTGTAATGTTCTATGG 834
Db |||||
Qy 1891 CAATAAACCTTAACCATATAAATAATCATCACTCATCTACTACCTTCAAACTTCAATCTTCA 1832
Db |||||
Qy 835 CTACAACAAATACAGGCAAGGTTCCATAGATTGTACACTAAACATTTCTCTCATCCAACT 894
Db |||||
Qy 1831 CCAACCTAAACAAACAAACAAACCAACCAATACATACTAATCTTTCCACACCAACCAAA 1772
Db |||||
Qy 895 GGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTGGCCTTCATTATGCCAGTGC 954
Db |||||
Qy 1771 CTTTCTAATAACACACAAACCAACCTCTACACACTCACTATAAACTTCAACCTCCCATAT 1712
Db |||||
Qy 955 TCATCATATCCGTTGTGATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCT 1014
Db |||||
Qy 1711 CCACCATCTATCTCTATACCAACCTTACTATAACCACTTACTATACCACTAATCAACATAACA 1652
Db |||||
Qy 1015 CTGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGG 1074
Db |||||
Qy 1651 ACCACACAAACCCCTTAACCAACCAACCAACCAAAACAAATAACCTTCTTAATAACATTC 1592
Db |||||
Qy 1075 TGGCTGTGTTTCATCGTCTGCTGGACTCCCATTTACATTTACGTCATCATTTAAAGCCTTGG 1134
Db |||||
Qy 1591 TAAACATATACCTCTCTACTATAACACCTTACCACCTTAAACACCAATAATAACACTCACCA 1532
Db |||||
Qy 1135 TTACAATCCGAAACCTAGTTTCAGACTGTTTCTTGGCACTTTCGCACTTCTAGTCTTAGTT 1194
Db |||||
Qy 1531 CCAACCTCCCAACAAACCAACCACTAATCATCACTATCTCTCTACTTCTCACTCAACCACTAACT 1472
Db |||||

Qy	1195	ACACAAACAGCTGCCTCAACCCAGTCCTTTATGCAATTTCTGGATGAAAACTTCAACGAT	1254
Db	1471	ACACCAACAACTACCTCAACCCCTTCTCTACACCTTCTTAACACCAACTTCCACAAA	1412
Qy	1255	GCTTCAGAGAGTTCTGTATCCCAACCTTTCCAAACATTGAGCAACAAAACTCCACTCGAA	1314
Db	1411	ACCTCCACCAACTAATAACTTACCACACAACACCTAACTCCCCCAACATCCCAACTCCAC	1352
Qy	1315	TTGGTCAGAACACTAGAGACCACC	1338
Db	1351	AACTACCCACCACTCCTAACCAAC	1328

Search completed: January 9, 2006, 12:53:50
Job time : 116.968 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model
Run on: January 8, 2006, 17:55:42 ; Search time 367.698 Seconds
(without alignments)
10451.753 Million cell updates/sec

Title: US-09-883-839-1-A386
Perfect score: 2162
Sequence: 1 ggaattccgctataggcag.....gtggtttgcctgggaattc 2162

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq.*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	DB ID	Description
1	2158.4	99.8	2162	3	US-09-351-198-1 Sequence 1, Appli
2	2158.4	99.8	2162	3	US-09-113-426-1 Sequence 1, Appli
3	2158.4	99.8	2162	3	US-09-016-434-1379 Sequence 1379, Ap
4	2148.8	99.4	2162	3	US-09-355-709C-7 Sequence 7, Appli
5	2136.4	98.8	2160	3	US-08-188-275A-1 Sequence 1, Appli
6	1551.4	71.8	1610	3	US-08-889-108-7 Sequence 7, Appli
7	1551.4	71.8	1610	6	PCT-US94-10358-7 Sequence 7, Appli
8	1198.2	55.4	1203	3	US-09-826-509-544 Sequence 544, App
9	1177.4	54.5	2229	3	US-09-214-904-1 Sequence 1, Appli
10	1163.6	53.8	1182	3	US-09-826-509-546 Sequence 546, App
11	1147	53.1	1981	3	US-08-387-707-15 Sequence 15, Appl
12	1147	53.1	1981	3	US-08-405-271A-15 Sequence 15, Appl
13	1130.2	52.3	2135	3	US-08-430-286A-1 Sequence 1, Appli
14	1099	50.8	1618	3	US-08-889-108-1 Sequence 1, Appli
15	1099	50.8	1618	3	US-08-889-108-3 Sequence 3, Appli
16	1099	50.8	1618	3	US-08-120-601B-1 Sequence 1, Appli
17	1099	50.8	1618	3	US-08-120-601B-3 Sequence 3, Appli
18	1099	50.8	1618	6	PCT-US94-10358-1 Sequence 1, Appli
19	1099	50.8	1618	6	PCT-US94-10358-3 Sequence 3, Appli
20	1071	49.5	1610	3	US-09-761-962A-16 Sequence 16, Appl
21	916.4	42.4	1542	3	US-09-761-962A-4 Sequence 4, Appli
22	915	42.3	1365	3	US-09-761-962A-11 Sequence 11, Appl
23	915	42.3	1423	3	US-09-761-962A-1 Sequence 1, Appli
24	913.6	42.3	1334	3	US-09-761-962A-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-351-198-1
; Sequence 1, Application US/09351198
; Patent No. 6335168
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S
; APPLICANT: Yu, Lei
; APPLICANT: Tischfield, Jay A.
; TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THEREON
; FILE REFERENCE: 600-1-226N
; CURRENT APPLICATION NUMBER: US/09/351,198
; CURRENT FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: 60/092,402
; EARLIER FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
US-09-351-198-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

25	913.6	42.3	1729	3	US-09-761-962A-9	Sequence 9, Appli
26	913.6	42.3	2045	3	US-09-761-962A-10	Sequence 10, Appl
27	913.6	41.3	1346	3	US-09-761-962A-12	Sequence 12, Appl
28	803.6	37.2	1238	3	US-09-761-962A-2	Sequence 2, Appli
29	709.8	32.8	1257	3	US-09-761-962A-5	Sequence 5, Appli
30	695.2	32.2	830	3	US-08-387-707-13	Sequence 13, Appl
31	695.2	32.2	830	3	US-08-405-271A-13	Sequence 13, Appl
32	454.2	21.0	1275	3	US-09-341-446B-7	Sequence 7, Appli
33	452.6	20.9	1273	3	US-09-016-434-1405	Sequence 5, Appli
34	441.8	20.4	1775	3	US-09-341-446B-5	Sequence 1405, Ap
35	441.6	20.4	1829	2	US-08-411-859-1	Sequence 1, Appli
36	441.6	20.4	1829	3	US-08-387-707-7	Sequence 7, Appli
37	441.6	20.4	1829	3	US-08-405-271A-7	Sequence 7, Appli
38	441.6	20.4	2218	3	US-09-214-904-3	Sequence 3, Appli
39	441.6	20.4	2219	3	US-08-432-174A-1	Sequence 1, Appli
40	441.6	20.4	2272	3	US-08-147-592A-3	Sequence 3, Appli
41	441.6	20.4	2272	3	US-08-292-694A-3	Sequence 3, Appli
42	440.8	20.4	998	3	US-08-432-174A-3	Sequence 3, Appli
43	440.2	20.4	1119	3	US-09-826-509-538	Sequence 538, App
44	437.8	20.2	441	3	US-09-530-880-5	Sequence 5, Appli
45	433.2	20.0	1142	3	US-08-765-743-1	Sequence 1, Appli

Db 121 GGCGAAGGAAGCGGCTGAGGCGCTTGGAAACCGAAAAAGTCTCGGTGCTCTGGCTACCT 180
QY 181 CGCACAGCGGTGCCCGCCGCGCGCTCAGTACCAATGACAGCAGCGTGCCTCCCAAGCAAG 240
Db 181 CGCACAGCGGTGCCCGCCGCGCGCTCAGTACCAATGACAGCAGCGTGCCTCCCAAGCAAG 240
QY 241 CAGCAAAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCGCCCGGTT 300
Db 241 CAGCAAAATGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCGCCCGGTT 300
QY 301 CTGGGTCAAATTTGTCCTTGAATGGCAACCTGTCCGACCAATCGGTCCGAAACCGCA 360
Db 301 CTGGGTCAAATTTGTCCTTGAATGGCAACCTGTCCGACCAATCGGTCCGAAACCGCA 360
QY 361 CCAACCTGGCGGAGAGACAGCTATGCCCTCCGACCGGAGTCCCTCGATGATCACGG 420
Db 361 CCAACCTGGCGGAGAGACAGCTATGCCCTCCGACCGGAGTCCCTCGATGATCACGG 420
QY 421 CCATCAGCATATGGGCCCTTACTCTCATCGTGTGGGTGGGCTTTCCGAAACTTCC 480
Db 421 CCATCAGCATATGGGCCCTTACTCTCATCGTGTGGGTGGGCTTTCCGAAACTTCC 480
QY 481 TGTCATGATGATGTGTCAGATACACCAAGATGAAGACTGCCACCAATCTACATTT 540
Db 481 TGTCATGATGATGTGTCAGATACACCAAGATGAAGACTGCCACCAATCTACATTT 540
QY 541 TCNAACCTTGCTCTGGCAGATGCCCTTAGCCACCAAGTACCTGCCCTTCCAGAGTGAAT 600
Db 541 TCNAACCTTGCTCTGGCAGATGCCCTTAGCCACCAAGTACCTGCCCTTCCAGAGTGAAT 600
QY 601 ACCTAATGGAAACATGGCCATTTGGAAACCATCTTTGCAAGATGATGATCTCCATAGAT 660
Db 601 ACCTAATGGAAACATGGCCATTTGGAAACCATCTTTGCAAGATGATGATCTCCATAGAT 660
QY 661 ACTATAACATGTTTCAACAGATATTCACCTCTGCACCAATGATGATGATGATGATGATG 720
Db 661 ACTATAACATGTTTCAACAGATATTCACCTCTGCACCAATGATGATGATGATGATGATG 720
QY 721 CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTAATTCCTGTAATGTTTCAAGTATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTAATTCCTGTAATGTTTCAAGTATCA 780
QY 781 ATGCTGTCAACTCGATCTCTCTTCAAGCCATTCGCTCTGTAATGTTTCAAGTATCA 840
Db 781 ATGCTGTCAACTCGATCTCTCTTCAAGCCATTCGCTCTGTAATGTTTCAAGTATCA 840
QY 841 CAAATAACAGGCAAGGTTCCATAGATTTGATACATAATCTCTCATCCAAACCTGGTACT 900
Db 841 CAAATAACAGGCAAGGTTCCATAGATTTGATACATAATCTCTCATCCAAACCTGGTACT 900
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTCACTTCCGCTTCAATGATGATGATGATGATGATG 960
Db 901 GGGAAACCTCGTGAAGATCTGTGTTTCACTTCCGCTTCAATGATGATGATGATGATGATG 960
QY 961 TTACCGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1020
Db 961 TTACCGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1020
QY 1021 CCAAGAAAGGACAGGAATCTTTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGTGGT 1080
Db 1021 CCAAGAAAGGACAGGAATCTTTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGTGGT 1080
QY 1081 TGTTTCATGCTGCTGGACTCCCATTCACATTTTACGTCATCAATTAAGGCTGGTTTACAA 1140
Db 1081 TGTTTCATGCTGCTGGACTCCCATTCACATTTTACGTCATCAATTAAGGCTGGTTTACAA 1140
QY 1141 TCCAGAAACTAGTTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTGATGATGATGATGATG 1200
Db 1141 TCCAGAAACTAGTTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTGATGATGATGATGATG 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAACAGATGCTTCA 1260
Db 1201 ACAGCTGCCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAACAGATGCTTCA 1260

QY 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGGACCAACAAATCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGGACCAACAAATCCACTCGAATTCGTC 1320
QY 1321 AGAACACATAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACATAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAAGCAGAACTGCTCGTTGCCCTTAACAGGGTCTCATGCCATTTCCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTGCTCGTTGCCCTTAACAGGGTCTCATGCCATTTCCGACCTT 1440
QY 1441 CACCAAGCTTTAGAAGCCACCATGTATGTGGAAGAGGTTGCTTCAAGAAATGTGTAGGAG 1500
Db 1441 CACCAAGCTTTAGAAGCCACCATGTATGTGGAAGAGGTTGCTTCAAGAAATGTGTAGGAG 1500
QY 1501 CTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTCAATCAACCTCTTTCTCTGGCCA 1560
Db 1501 CTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTCAATCAACCTCTTTCTCTGGCCA 1560
QY 1561 CTCTGCTCTGCACTTTAGAGGACAGCCAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 1620
Db 1561 CTCTGCTCTGCACTTTAGAGGACAGCCAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 1620
QY 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCATCGTG 1680
Db 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCATCGTG 1680
QY 1681 GTATGTGAATTTGAAGTCAATATAAAGGTGACCTTCTGTCTGTAAAGTAAATTTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTCAATATAAAGGTGACCTTCTGTCTGTAAAGTAAATTTTCAA 1740
QY 1741 GCAATATTTTATGACCTCAACAAAGAAACCAATCTTTTGTAAAGTAAAGTAAAGTAAAC 1800
Db 1741 GCAATATTTTATGACCTCAACAAAGAAACCAATCTTTTGTAAAGTAAAGTAAAGTAAAC 1800
QY 1801 CATTAAGTAAATGCTACCTCTCATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTTAG 1860
Db 1801 CATTAAGTAAATGCTACCTCTCATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTTAG 1860
QY 1861 TGTTTTTGAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTTAAAT 1920
Db 1861 TGTTTTTGAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGATCATTTTCACTCTCTTTTGTGGTGGTGGTGGTGGTGGTGGT 1980
Db 1921 TAGCATCTGGCTAAGGATCATTTTCACTCTCTTTTGTGGTGGTGGTGGTGGTGGTGGT 1980
QY 1981 AATAACATCTCTTTTCTAGCTAGCTCCATTAATTTCTATTTTAGACTTTTAACTTTAA 2040
Db 1981 AATAACATCTCTTTTCTAGCTAGCTCCATTAATTTCTATTTTAGACTTTTAACTTTAA 2040
QY 2041 TCTGAAACACAGTCTAGTGTCACTGTAGAAAGTGGTGGTGGTGGTGGTGGTGGTGGTGG 2100
Db 2041 TCTGAAACACAGTCTAGTGTCACTGTAGAAAGTGGTGGTGGTGGTGGTGGTGGTGGTGG 2100
QY 2101 CAAAAGAGTCAATGAGGAGATTTTCTTAGGCTTTTCTAGTGGTGGTGGTGGTGGTGGTGG 2160
Db 2101 CAAAAGAGTCAATGAGGAGATTTTCTTAGGCTTTTCTAGTGGTGGTGGTGGTGGTGGTGG 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 2
US-09-113-426-1
; Sequence 1, Application US/09113426
; Patent No. 6337207
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforce, Karl S

APPLICANT: Yu, Lei
APPLICANT: Tischeff, Jay A.
TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
METHODS OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
TITLE OF INVENTION: BASED THERON
FILE REFERENCE: 600-1-226
CURRENT APPLICATION NUMBER: US/09/113,426
CURRENT FILING DATE: 1998-07-10
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 2162
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (2063)
OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
FEATURE:
NAME/KEY: misc feature
LOCATION: (2091)
OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
US-09-113-426-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	GGAAATCCGGCTATAGGCAGAGGAGAAATGTCAGATGTCAGCTCGGTCCCTCCGCTGA	60
Db	1	GGAAATCCGGCTATAGGCAGAGGAGAAATGTCAGATGTCAGCTCGGTCCCTCCGCTGA	60
Qy	61	CGCTCTCTCTGCTCAGCAGGAGTGGTTCTGTAGAAACAGCAGGAGTGGCAGC	120
Db	61	CGCTCTCTCTGCTCAGCAGGAGTGGTTCTGTAGAAACAGCAGGAGTGGCAGC	120
Qy	121	GGCCAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTACCT	180
Db	121	GGCCAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTACCT	180
Qy	181	CGCACAGCGGTGCCCGCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAACG	240
Db	181	CGCACAGCGGTGCCCGCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAACG	240
Qy	241	CCAGAAATGCACTGATGCCCTTGGGCTACTCAAGTTGCTCCCGACCCAGCCCGGTT	300
Db	241	CCAGAAATGCACTGATGCCCTTGGGCTACTCAAGTTGCTCCCGACCCAGCCCGGTT	300
Qy	301	CCTGGGTCACTGTGCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACGCA	360
Db	301	CCTGGGTCACTGTGCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACGCA	360
Qy	361	CCAACTGGGGGAGAGACAGCCCTATGCCCTCCGACCGGAGTCCCTCCATGATCAGG	420
Db	361	CCAACTGGGGGAGAGACAGCCCTATGCCCTCCGACCGGAGTCCCTCCATGATCAGG	420
Qy	421	CCATCAGATCATGCGCCCTTACTCCTCATGCTGGGTGGGCTCTTCGGAACCTCC	480
Db	421	CCATCAGATCATGCGCCCTTACTCCTCATGCTGGGTGGGCTCTTCGGAACCTCC	480
Qy	481	TGGTCACTGATGATGTCAGATACCAAGATGAAGTGGCAACCAATCTACATTT	540
Db	481	TGGTCACTGATGATGTCAGATACCAAGATGAAGTGGCAACCAATCTACATTT	540
Qy	541	TCAAATCTGCTGGCAGATGCTTAGCCACAGTACCCTGCCCTTCCAGAGTGAATT	600
Db	541	TCAAATCTGCTGGCAGATGCTTAGCCACAGTACCCTGCCCTTCCAGAGTGAATT	600
Qy	601	ACCTAATGGGAACATGGGCAATTTGGAAACATCTTTTGAAGATGATGATCTCCATAGATT	660
Db	601	ACCTAATGGGAACATGGGCAATTTGGAAACATCTTTTGAAGATGATGATCTCCATAGATT	660
Qy	661	ACTATAACATGTTACACAGCATATTACCCCTCTGCACCATGAGTGTGATCGATACATTG	720

Db	661	ACTATAACATGTTACACAGCATATTACCCCTCTGCACCATGAGTGTGATCGATACATTG	720
Qy	721	CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATTTATCA	780
Db	721	CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATTTATCA	780
Qy	781	ATGCTCTGCAACATGGATCTCTCTTCAGCCATTTGGTCTCTCTGTAATTTTATGGCTACA	840
Db	781	ATGCTCTGCAACATGGATCTCTCTTCAGCCATTTGGTCTCTCTGTAATTTTATGGCTACA	840
Qy	841	CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACT	900
Db	841	CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACT	900
Qy	901	GGGAAAACCTCGTGAAGATCTGTGTTTTCATTTTCGCTTCATTTATGCCAGTGTCTATCA	960
Db	901	GGGAAAACCTCGTGAAGATCTGTGTTTTCATTTTCGCTTCATTTATGCCAGTGTCTATCA	960
Qy	961	TTACCGTGTCTATGAGTGAATCTTTGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Db	961	TTACCGTGTCTATGAGTGAATCTTTGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Qy	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTCTGGTGGTGGCTG	1080
Db	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTCTGGTGGTGGCTG	1080
Qy	1081	TGTTTATCGTCTCTGAGTCCCATTCACATTTTACGTCATCATTTAAAGCCTTGGTTACAA	1140
Db	1081	TGTTTATCGTCTCTGAGTCCCATTCACATTTTACGTCATCATTTAAAGCCTTGGTTACAA	1140
Qy	1141	TCCAGAAAATAGCTTTCAGACTGTTTCTTGGCACTTTCGATTCGATTCAGTTTACACAA	1200
Db	1141	TCCAGAAAATAGCTTTCAGACTGTTTCTTGGCACTTTCGATTCGATTCAGTTTACACAA	1200
Qy	1201	ACAGTGTCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAAGAGTCTTCA	1260
Db	1201	ACAGTGTCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAAGAGTCTTCA	1260
Qy	1261	GAGAGTCTCTATCCCAACCTCTTCCAACTTTGAGCAACAAACTCCACTCGAATTCGTC	1320
Db	1261	GAGAGTCTCTATCCCAACCTCTTCCAACTTTGAGCAACAAACTCCACTCGAATTCGTC	1320
Qy	1321	AGAACCTAGAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
Db	1321	AGAACCTAGAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
Qy	1381	AAAATCTGGAAGCAGAAACTGCTCCGTGGCTTAAAGGGTCTCATGCGCATTCGACCTT	1440
Db	1381	AAAATCTGGAAGCAGAAACTGCTCCGTGGCTTAAAGGGTCTCATGCGCATTCGACCTT	1440
Qy	1441	CACCAAGCTTAGAGCCACCACTGATGTTGGAAGCAGGTTGCTTCAAGATGTGAGGAGG	1500
Db	1441	CACCAAGCTTAGAGCCACCACTGATGTTGGAAGCAGGTTGCTTCAAGATGTGAGGAGG	1500
Qy	1501	CTCTAAATCTTAGGAAAGTGCCTTCTTTTAGGTTCATCCAACTCTTTCTCTCTGGCCA	1560
Db	1501	CTCTAAATCTTAGGAAAGTGCCTTCTTTTAGGTTCATCCAACTCTTTCTCTCTGGCCA	1560
Qy	1561	CTCTGCTCTGACATTAAGGAGCAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAGAA	1620
Db	1561	CTCTGCTCTGACATTAAGGAGCAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAGAA	1620
Qy	1621	TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT	1680
Db	1621	TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT	1680
Qy	1681	GTATGTGAATTTGAAGTCAATATAAAAGGTGACCCCTTCTGCTGTAAGATTTTATTTTCAA	1740
Db	1681	GTATGTGAATTTGAAGTCAATATAAAAGGTGACCCCTTCTGCTGTAAGATTTTATTTTCAA	1740
Qy	1741	GCAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTGTAAGTTCACCGTAGTACAA	1800

Db 1741 GCAATATATTATGACCTCAACAAAGGAAGAACCATCTTTTGTAAAGTTACCGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAAGGTCAGAGTCTTTTGTAG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAAGGTCAGAGTCTTTTGTAG 1860
QY 1861 TGTTTTTGAAGGAATGAATCCATTAATCTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
Db 1861 TGTTTTTGAAGGAATGAATCCATTAATCTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGTAAAGCATATTTTCACTCCATTTTCTTGGTTTGTATTTTAAATAA 1980
Db 1921 TAGCATCTGGTAAAGCATATTTTCACTCCATTTTCTTGGTTTGTATTTTAAATAA 1980
QY 1981 AATAACATCTTTTCACTAGCTCCATAATGCAAGGAAGAGATTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTTTTCACTAGCTCCATAATGCAAGGAAGAGATTAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAGTTGATTCTCATGCACTNCAAAATAC 2100
Db 2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAGTTGATTCTCATGCACTNCAAAATAC 2100
QY 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCTAGTGTGTTTCTTGG 2160
Db 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCTAGTGTGTTTCTTGG 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 3

US-09-016-434-1379
; Sequence 1379, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1379:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2162 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g452072
US-09-016-434-1379
Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGCAGAGAGAAATGTACAGATGCTCAGCTCGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGCAGAGAGAAATGTACAGATGCTCAGCTCGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTCTCTCAGCCAGAGCTGGTTTCTGTAAGAAAACAGCAGAGAGCTGTGCGAGC 120
Db 61 CGCTCTCTCTCTCTCAGCCAGAGCTGGTTTCTGTAAGAAAACAGCAGAGAGCTGTGCGAGC 120
QY 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGCTCTCGTGTCTCTGGCTACCT 180
Db 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGCTCTCGTGTCTCTGGCTACCT 180
QY 181 CGCAGAGCGGTCGCCCGCGCGCTCAGTACCATGAGAGAGCGCTGCCCCACGAACG 240
Db 181 CGCAGAGCGGTCGCCCGCGCGCGCTCAGTACCATGAGAGAGCGCTGCCCCACGAACG 240
QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCGCCCGGTT 300
QY 301 CCTGGGTCAAATTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
Db 301 CCTGGGTCAAATTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
QY 361 CCAACTGGGCGGGAGAGACACGCTATGCCCCTCGACCGGAGTCCCTCCATGATCACGG 420
Db 361 CCAACTGGGCGGGAGAGACACGCTATGCCCCTCGACCGGAGTCCCTCCATGATCACGG 420
QY 421 CCATCAGCATATGCGCCCTCTACTCCATCGTGGTGGTGGGCTCTTCGGAACCTTC 480
Db 421 CCATCAGCATATGCGCCCTCTACTCCATCGTGGTGGTGGGCTCTTCGGAACCTTC 480
QY 481 TGGTCATGTATGTGATTTGTAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATTTGTAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGCGCAGATGCTTAGCCACCATGATACCTGCGCTTCCAGAGTGTGAATT 600
Db 541 TCAACCTTGTCTGCGCAGATGCTTAGCCACCATGATACCTGCGCTTCCAGAGTGTGAATT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATT 660
QY 661 ACTATAACAATGTTTCAACAGCATATTCACCCCTCTGCAACCATGATGTTGATGATACATTG 720
Db 661 ACTATAACAATGTTTCAACAGCATATTCACCCCTCTGCAACCATGATGTTGATGATACATTG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATGTTTCAATGTTTCAATGTTTCAATGTTTCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATGTTTCAATGTTTCAATGTTTCAATGTTTCA 780
QY 781 ATGTCTGCAACTGGATCTCTCTCAGCCATTTGGTCTTCTGTAATGTTTCAATGTTTCAATGTTTCA 840
Db 781 ATGTCTGCAACTGGATCTCTCTCAGCCATTTGGTCTTCTGTAATGTTTCAATGTTTCAATGTTTCA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCATCCAACTCGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCATCCAACTCGTACT 900
QY 901 GGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCTTTCATTTATGCGAGTGTCTATCA 960
Db 901 GGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCTTTCATTTATGCGAGTGTCTATCA 960

QY 961 TTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCGCGCATGCTCTCTGGCT 1020
Db 961 TTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCGCGCATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGCTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGCTGGTGGTGGCTG 1080
QY 1081 TGTTTCATGCTGTGAGCTCCCATTCACATTTAGCTCATTAAGAGCCTTGGTTACAA 1140
Db 1081 TGTTTCATGCTGTGAGCTCCCATTCACATTTAGCTCATTAAGAGCCTTGGTTACAA 1140
QY 1141 TCCAGAAACTACGTTCCAGACTCTTCTTGGCACTTCTGATGCTCTAGGTTACAA 1200
Db 1141 TCCAGAAACTACGTTCCAGACTCTTCTTGGCACTTCTGATGCTCTAGGTTACAA 1200
QY 1201 ACAGCTGCTCAACCCAGTCTTATGCAATTTCTGGATGAAACTTCAAAAGATGCTTCA 1260
Db 1201 ACAGCTGCTCAACCCAGTCTTATGCAATTTCTGGATGAAACTTCAAAAGATGCTTCA 1260
QY 1261 GAGAGTTCTGTATCCCACTCTTCCAAATTTAGGATGAAACTTCAAAAGATGCTTCA 1320
Db 1261 GAGAGTTCTGTATCCCACTCTTCCAAATTTAGGATGAAACTTCAAAAGATGCTTCA 1320
QY 1321 AGAACACTAGACACCCCTCCAGGCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGACACCCCTCCAGGCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAAGCAGAACTCTCGTTGGCCCTAACAGGGTCTCATGCAATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTCTCGTTGGCCCTAACAGGGTCTCATGCAATTCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTTGTTCAAGATGTGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTTGTTCAAGATGTGTAGGAGG 1500
QY 1501 CTCTAATCTCTAGGAAGTGCTACTTTTGGTTCATCCACCTCTTCTCTCTGGCCA 1560
Db 1501 CTCTAATCTCTAGGAAGTGCTACTTTTGGTTCATCCACCTCTTCTCTCTGGCCA 1560
QY 1561 CTCTGCTCTGACATAGAGGAGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAGAA 1620
Db 1561 CTCTGCTCTGACATAGAGGAGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAGAA 1620
QY 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Db 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
QY 1681 GTATGTGAATTTGAAGTCAATATAAGGTGACCTTCTGCTGTAAGATTTTATTTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTCAATATAAGGTGACCTTCTGCTGTAAGATTTTATTTTCAA 1740
QY 1741 GCAATATTTATGACCTCAACAAAGAAAGACATCTTTTGTAAAGTTCACCGTAGTAACA 1800
Db 1741 GCAATATTTATGACCTCAACAAAGAAAGACATCTTTTGTAAAGTTCACCGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTTACCTCTGATCAAAAGCACCTTTGAATGGAAGTCCGAGTCTTTTAA 1860
Db 1801 CATAAAGTAAATGCTTACCTCTGATCAAAAGCACCTTTGAATGGAAGTCCGAGTCTTTTAA 1860
QY 1861 TGTTTTGCAAGGGAATGAATCCATATTCTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTGCAAGGGAATGAATCCATATTCTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAA 1980
QY 1981 AATAACATCTCTTTTCTATCTAGCTCCATTAATTGCAAGGGAAGAGATTAGCATGAAAGTAA 2040
Db 1981 AATAACATCTCTTTTCTATCTAGCTCCATTAATTGCAAGGGAAGAGATTAGCATGAAAGTAA 2040

QY 2041 TCTGAAACACAGTCATGTGTCTCANCCTGTAGAAAGTTGATTCTCATGCACTNCAATACTT 2100
Db 2041 TCTGAAACACAGTCATGTGTCTCANCCTGTAGAAAGTTGATTCTCATGCACTNCAATACTT 2100
QY 2101 CCAAGAGTCATCATCGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTCTCTGGAAT 2160
Db 2101 CCAAGAGTCATCATCGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTCTCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 4
US-09-355-709C-7
; Sequence 7, Application US/09355709C
; Patent No. 6538120
; GENERAL INFORMATION:
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...
; FILE REFERENCE: 101195-15
; CURRENT APPLICATION NUMBER: US/09/355,709C
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: DE 197 03 925.1
; PRIOR FILING DATE: 1997-02-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic
; OTHER INFORMATION: Clone
; OTHER INFORMATION: cDNA encoding human opiate receptor
; NAME/KEY: unsure
; LOCATION: (2063)
; OTHER INFORMATION: n = unknown
; NAME/KEY: unsure
; LOCATION: (2091)
; OTHER INFORMATION: n = unknown
; US-09-355-709C-7

Query Match 99.4%; Score 2148.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2152; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 9 GGCTATAGGACAGAGGAGAAATGTGATGCTCAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTC 68
Db 9 GGCTATAGGACAGAGGAGAAATGTGATGCTCAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTC 68
QY 69 TCTGTCTCAGCAGGAGTGTGTAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAG 128
Db 69 TCTGTCTCAGCAGGAGTGTGTAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAG 128
QY 129 GAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAGC 188
Db 129 GAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAGC 188
QY 189 GGTGCGCGCGCGCGCTCAGTACCATGGAAGAGCGGTGCGCCCAAGAGCGCGCAAT 248
Db 189 GGTGCGCGCGCGCGCTCAGTACCATGGAAGAGCGGTGCGCCCAAGAGCGCGCAAT 248
QY 249 TGCACTGATGCTTGGGCTACTCAAGTTGCTCCCGACACCCAGCGCTTCTTGGGTC 308
Db 249 TGCACTGATGCTTGGGCTACTCAAGTTGCTCCCGACACCCAGCGCTTCTTGGGTC 308
QY 309 AACTTGTCCCACTTAGATGGCAACTGTCCGACCATCGGTCCGAAACCGCAACCACTG 368
Db 309 AACTTGTCCCACTTAGATGGCAACTGTCCGACCATCGGTCCGAAACCGCAACCACTG 368
QY 369 GCGCGGAGAGACAGCCTATGCCCTCCGACCGGAGTCCCTCATGATCAGCGCATCAG 428
Db 369 GCGCGGAGAGACAGCCTATGCCCTCCGACCGGAGTCCCTCATGATCAGCGCATCAG 428


```
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1173-449P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2160 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..2160
; OTHER INFORMATION: /label= cDNA
; OTHER INFORMATION: /note= "cDNA encoding human mu opiate receptor"
;
; US-08-188-275A-1
;
; Query Match 98.8%; Score 2136.4; DB 3; Length 2160;
; Best Local Similarity 99.9%; Pred. No. 0;
; Matches 2159; Conservative 0; Mismatches 1; Indels 2; Gaps 2;
;
; Qy 1 GGAAATCCGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCGCTCCGCTGA 60
; Db 1 GGAAATCCGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCGCTCCGCTGA 60
;
; Qy 61 CGCTCCTCTGCTCTCAGCCAGGAGTGGTTCCTGTAAGAACACAGAGAGCTGGGCAGC 120
; Db 61 CGCTCCTCTGCTCTCAGCCAGGAGTGGTTCCTGTAAGAACACAGAGAGCTGGGCAGC 120
;
; Qy 121 GGGCAAGAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT 180
; Db 121 GGGCAAGAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT 180
;
; Qy 181 CGCAGAGCGGTGCCCGCCGCGCTCAGTACCATGGACAGAGCGGTGCCCGCCACGAAAG 240
; Db 181 CGCAGAGCGGTGCCCGCCGCGCTCAGTACCATGGACAGAGCGGTGCCCGCCACGAAAG 240
;
; Qy 241 CCAGCAATTGCACTGATGCCCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCGCGGTT 300
; Db 241 CCAGCAATTGCACTGATGCCCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCGCGGTT 300
;
; Qy 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
; Db 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
;
; Qy 361 CCAACCTGGGGGAGAGACAGCCCTATGCCCTCCGACCGGCGAGTCCCTCCATGATCAGG 420
; Db 361 CCAACCTGGGGGAGAGACAGCCCTATGCCCTCCGACCGGCGAGTCCCTCCATGATCAGG 420
;
; Qy 421 CCATCAGCATCATGGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTTCC 480
; Db 421 CCATCAGCATCATGGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTTCC 480
;
; Qy 481 TGGTCACTGATGTGATGTGATGATACCAAGATGAAGACTGCCACCAACACTTACATTT 540
; Db 481 TGGTCACTGATGTGATGTGATGATACCAAGATGAAGACTGCCACCAACACTTACATTT 540
;
; Qy 541 TCAACCTTGCTCTGGCAGATGCCCTTAGCCACCGTACCTGCCCTTCCAGAGTGTGAATT 600
; Db 541 TCAACCTTGCTCTGGCAGATGCCCTTAGCCACCGTACCTGCCCTTCCAGAGTGTGAATT 600
;
; Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
; Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
;
; Qy 661 ACTATACATGTTACAGCATATTTACCCCTCTGACCATGAGTGTGATCGATACATTTG 720
; Db 661 ACTATACATGTTACAGCATATTTACCCCTCTGACCATGAGTGTGATCGATACATTTG 720
```

```
Db 661 ACTATACATGTTACAGCATATTTACCCCTCTGACCATGAGTGTGATCGATACATTTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTTCCCGAAATGCCAAATTTATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTTCCCGAAATGCCAAATTTATCA 780
Qy 781 ATGCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
Db 781 ATGCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
Qy 841 CAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACT 900
Db 841 CAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACT 900
Qy 901 GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCTCAGTGTCTATCA 960
Db 901 GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCTCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Qy 1021 CCAAGAAAAGGACAGGAATCTTCAAGGATCACCAGGATGGTCTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAAGGACAGGAATCTTCAAGGATCACCAGGATGGTCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTCGTGGACTCCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTCGTGGACTCCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACAA 1140
Qy 1141 TCCAGAAAATAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTTAGGTTACACAA 1200
Db 1141 TCCAGAAAATAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTTAGGTTACACAA 1200
Qy 1201 ACAGTGTCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAATTTCAACGATGCTTCA 1260
Db 1201 ACAGTGTCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAATTTCAACGATGCTTCA 1260
Qy 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGAAGCAAACTCCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGAAGCAAACTCCCACTCGAATTCGTC 1320
Qy 1321 AGAACACTAGAGACCCCTCCACGGCCAAATACAGTGGATAGAACTAAATCATCAGTAG 1380
Db 1321 AGAACACTAGAGACCCCTCCACGGCCAAATACAGTGGATAGAACTAAATCATCAGTAG 1380
Qy 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTAAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTAAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAGCCACCATGTTGTTGGAAGCAGGTGCTTCAAGAACTGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAGCCACCATGTTGTTGGAAGCAGGTGCTTCAAGAACTGTAGGAGG 1500
Qy 1501 CTCTAATTTCTTAGGAAAGTCCCTTCTTTAGGTCTATCCCACTCTTTTCTCTCTGGCCA 1560
Db 1501 CTCTAATTTCTTAGGAAAGTCCCTTCTTTAGGTCTATCCCACTCTTTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAAGTAAAGTGGAGCAATTTGGAAAGAAAGAA 1620
Db 1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAAGTAAAGTGGAGCAATTTGGAAAGAAAGAA 1620
Qy 1621 TATACCAACCGGAGGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Db 1621 TATACCAACCGGAGGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Qy 1681 GTATGTGAATTTGAAGTCTATATAAAGGTGACCCCTTCTGTCTGTGAAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTCTATATAAAGGTGACCCCTTCTGTCTGTGAAGATTTTATTTCAA 1740
Qy 1741 GCATAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAAACA 1800
Db 1741 GCATAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAAACA 1800
```

QY 1801 CATAAGTAAATGCTACCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
QY 1861 TGTTTTGCAAGGGAATGAATCCATTATTCATATTTTAGACTTTTAACTTCAAAAT 1920
Db 1861 TGTTTTGCAAGGGAATGAATCCATTATTCATATTTTAGACTTTTAACTTCAAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATGTTTAAAAA 1980
QY 1981 AATAACATCTCTTTTCATCTAGCTCCATAATGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGCTCCATAATGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCATGTGTCTCANCCTGTAGAAAGTTGATTCCTCATGCACTNCAAAAT 2100
Db 2041 TCTGAAACACAGTCATGTGTCTCANCCTGTAGAAAGTTGATTCCTCATGCACTNCAAAAT 2100
QY 2101 CCAAGAGTCATCATGGGGATTTTTCATCTTAGGCTTTTCACTGCTTCTGCTGGAAT 2160
Db 2099 CCAAGAGTCATCATGGGGATTTTTCATCTTAGGCTTTTCACTGCTTCTGCTGGAAT 2158
QY 2161 TC 2162
Db 2159 TC 2160

RESULT 6

US-08-889-108-7
; Sequence 7, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESS: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-889-108-7

Query Match 71.8%; Score 1551.4; DB 3; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
QY 9 GCGTATAGCGAGAGAGAATGTACAGTCTCGGTCCCTCGCTCGCTCGCTCGCTCGCTC 68
Db 36 GCGTATAGCGAGAGAGAATGTACAGTCTCGGTCCCTCGCTCGCTCGCTCGCTCGCTC 95
QY 69 TCTGTCTCAGCCAGGAGCTGGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 128
Db 96 TCTGTCTCAGCCAGGAGCTGGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 155
QY 129 GAAGCGGCTGAGGCGCTTTGGAAACCGAAAGTCTCGGTCTCTCGCTACCTCGCACAGC 188
Db 156 GAAAGCGGCTGAGGCGCTTTGGAAACCGAAAGTCTCGGTCTCTCGCTACCTCGCACAGC 215
QY 189 GGTGCCCGCGCGCGCTCAGTACCATGACAGCAGGCTGCCCCCAGCAACGCCAGCAAT 248
Db 216 -GTGCCCGCGCGCGCTCAGTACCATGACAGCAGGCTGCCCCCAGCAACGCCAGCAAT 274
QY 249 TGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGACACCCAGCCCGGTTCTTGGGTC 308
Db 275 TGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGACACCCAGCCCGGTTCTTGGGTC 334
QY 309 AACTTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAACCGCAACCTG 368
Db 335 AACTTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAACCGCAACCTG 394
QY 369 GCGCGGAGAGACAGCTTATGCCCTCGACCGGAGTCCCTCATGATCAGGCGCATCAG 428
Db 395 GCGCGGAGAGACAGCTTATGCCCTCGACCGGAGTCCCTCATGATCAGGCGCATCAG 454
QY 429 ATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCTCTGGTCTATG 488
Db 455 ATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCTCTGGTCTATG 514
QY 489 TATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTT 548
Db 515 TATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTT 574
QY 549 GCTCTGGCAGATGCTTGGACACAGTACCTTCCCTTCCAGAGTGTGAATTTACCTTAATG 608
Db 575 GCTCTGGCAGATGCTTGGACACAGTACCTTCCCTTCCAGAGTGTGAATTTACCTTAATG 634
QY 609 GGAACATGSCCATTTTGGAAACCATCTTTGCAAGATAGTGTCTTCCATAGATTTACTATAAC 668
Db 635 GGAACATGSCCATTTTGGAAACCATCTTTGCAAGATAGTGTCTTCCATAGATTTACTATAAC 694
QY 669 ATGTTTACCAGCATATTCACCTCTGCACCATGAGTGTGATCGATACATTCAGTCTGC 728
Db 695 ATGTTTACCAGCATATTCACCTCTGCACCATGAGTGTGATCGATACATTCAGTCTGC 754
QY 729 CACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATGTCTGC 788
Db 755 CACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATGTCTGC 814
QY 789 AACTGATCTCTCTTTCAGCCATTTGCTCTTCTGTAATGTTCTATGGCTACACAAATATAC 848
Db 815 AACTGATCTCTCTTTCAGCCATTTGCTCTTCTGTAATGTTCTATGGCTACACAAATATAC 874
QY 849 AGGCAAGGTTCCATAGATTTGTACACTAACATTTCTCTCAATCCAACTGGTACTGGGAAAC 908
Db 875 AGGCAAGGTTCCATAGATTTGTACACTAACATTTCTCTCAATCCAACTGGTACTGGGAAAC 934
QY 909 CTCGTGAAGATCTGTGTTTTCATCTTTCGCTTTCATTTATGCCAGTGTCTATCATCCGTC 968
Db 935 CTCGTGAAGATCTGTGTTTTCATCTTTCGCTTTCATTTATGCCAGTGTCTATCATCCGTC 994
QY 969 TCGTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCAAGAA 1028
Db 995 TCGTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCAAGAA 1054
QY 1029 AAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGGTGTGTGTTTCATC 1088

Db 1055 AAGACAGGAACTTCGAGGATCACAGGATGGTGTGGTGGTGTGTTTCATC 1114
Qy 1089 GTCTGTGGACTCCCATTCATTTACATTAAGCTTAAAGCCTTGGTTACATCCAGAA 1148
Db 1115 GTCTGTGGACTCCCATTCATTTACATTAAGCTTAAAGCCTTGGTTACATCCAGAA 1174
Qy 1149 ACTACGTTCCAGACTGTTCTTGGCACTTCTGCAATGCTCTAGGTTACAAACAGCTGC 1208
Db 1175 ACTACGTTCCAGACTGTTCTTGGCACTTCTGCAATGCTCTAGGTTACAAACAGCTGC 1234
Qy 1209 CTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACCTTCAACGATGCTTCAGAGTTTC 1268
Db 1235 CTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACCTTCAACGATGCTTCAGAGTTTC 1294
Qy 1269 TGTATCCCAACCTCTTCCAACTTGAAGCAAACTCCACTCGAATTCGTGAGAACACT 1328
Db 1295 TGTATCCCAACCTCTTCCAACTTGAAGCAAACTCCACTCGAATTCGTGAGAACACT 1354
Qy 1329 AGACACACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCTG 1388
Db 1355 AGACACACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCTG 1414
Qy 1389 GAACGAGAACTGCTCGTGTGCTTAACAGGGTCTCATGCAATTCGACCTTCAACCAAGC 1448
Db 1415 GAACGAGAACTGCTCGTGTGCTTAACAGGGTCTCATGCAATTCGACCTTCAACCAAGC 1474
Qy 1449 TTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTTAGGAGGCTTAATT 1508
Db 1475 TTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTTAGGAGGCTTAATT 1534
Qy 1509 CTCTAGGAAGTGCTACTTTTAGTGCATCCAACTCTTCTCTCTGGCCACTCTGCTC 1568
Db 1535 CTCTAGGAAGTGCTACTTTTAGTGCATCCAACTCTTCTCTCTGGCCACTCTGCTC 1594
Qy 1569 TdCATTAGAGG 1581
Db 1595 TGCATTTAGAGG 1607

RESULT 7
PCT-US94-10358-7
; Sequence 7, Application PC/TUS9410358
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: MU OPIOID RECEPTORS: COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/10358
; FILING DATE: Concurrently herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/120 601
; FILING DATE: 13 SEPTEMBER 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: WILSON, MARK B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005P--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679

; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; PCT-US94-10358-7

Query Match 71.8%; Score 1551.4; DB 6; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

Qy 9 GGTATATAGGACAGAGGAGAAATGTTCAGATGCTCGAGTCCCTCCCTCGCTGAGCGTCTCCTC 68
Db 36 GGTATATAGGACAGAGGAGAAATGTTCAGATGCTCGAGTCCCTCCCTCGCTGAGCGTCTCCTC 95
Qy 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 128
Db 96 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 155
Qy 129 GAAGCGGCTGAGCGGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACTCTGCACAGC 188
Db 156 GAAGCGGCTGAGCGGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACTCTGCACAGC 215
Qy 189 GGTGCCCGCCGCCGCTCAGTACATGAGCAGCAGCGGCTGCCGCCACAGAAACGCCAGCAAT 248
Db 216 -GTGCCCGCCGCCGCTCAGTACATGAGCAGCAGCGGCTGCCGCCACAGAAACGCCAGCAAT 274
Qy 249 TGCACCTGATGCTTGGCGTACTCAAGTTGCTTCCAGCAGCAGCCGCCCGGTTCTTGGGTC 308
Db 275 TGCACCTGATGCTTGGCGTACTCAAGTTGCTTCCAGCAGCAGCCGCCCGGTTCTTGGGTC 334
Qy 309 AACTTGTCCCACTTAGATGSCAACCTGTCGACCCATCGCGTCCGAAACCGCAGCAACCTG 368
Db 335 AACTTGTCCCACTTAGATGSCAACCTGTCGACCCATCGCGTCCGAAACCGCAGCAACCTG 394
Qy 369 GCGGGAGAGACAGCCCTATGCCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAGC 428
Db 395 GCGGGAGAGACAGCCCTGTCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAGC 454
Qy 429 ATCATGGCCCTCTACTCCATCTGCTGGTGGGCTCTTGGAAACTTCTCTGGTCTATG 488
Db 455 ATCATGGCCCTCTACTCCATCTGCTGGTGGGCTCTTGGAAACTTCTCTGGTCTATG 514
Qy 489 TATGTGATGTCAGATACACCAAGATGAAGCTGCCACCACTCTACATTTTCAACCTT 548
Db 515 TATGTGATGTCAGATACACCAAGATGAAGCTGCCACCACTCTACATTTTCAACCTT 574
Qy 549 GCTCTGGCAGATGCTTTAGGCCACCCAGTACCTTCCGCTTCCAGAGTGTGAATTTACCTAATG 608
Db 575 GCTCTGGCAGATGCTTTAGGCCACCCAGTACCTTCCGCTTCCAGAGTGTGAATTTACCTAATG 634
Qy 609 GGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTGTCTCCATAGATTTATTAAC 668
Db 635 GGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTGTCTCCATAGATTTATTAAC 694
Qy 669 ATGTTACACGATATTTACCCCTCTGCACCAATGATGTTGATCAGATACATTTGCAAGTCTGC 728
Db 695 ATGTTACACGATATTTACCCCTCTGCACCAATGATGTTGATCAGATACATTTGCAAGTCTGC 754
Qy 729 CACCTGTCAAGGCTTAGATTTCCGTTACTCCCGAAATGCCAAATTTATCAATGTCTGTC 788
Db 755 CACCTGTCAAGGCTTAGATTTCCGTTACTCCCGAAATGCCAAATTTATCAATGTCTGTC 814
Qy 789 AACTGGATCTCTCTTTCAGCCATTTGGTCTCTCTGTAATGTTTTCATGGCTTACAAATAATAC 848
Db 815 AACTGGATCTCTCTTTCAGCCATTTGGTCTCTCTGTAATGTTTTCATGGCTTACAAATAATAC 874
Qy 849 AGGCAAGGTTCCATAGATTTGATACACTAACTCTCTATCAACCTGTGTCTGGGAAAC 908
Db 875 AGGCAAGGTTCCATAGATTTGATACACTAACTCTCTATCAACCTGTGTCTGGGAAAC 934

QY 1233 CTGGATGAAGAACTTCAACGATGCTTCAGAGAGTTCGTATCCCAACCTCTTCCAACTT 1292
Db 1021 CTGGATGAAGAACTTCAACGATGCTTCAGAGAGTTCGTATCCCAACCTCTTCCAACTT 1080
QY 1293 GAGCAACAAACTCCCACTCCGAATTCGTTCAGAAACACTAGAGACCAACCCCTCCACGGCCAAT 1352
Db 1081 GAGCAACAAACTCCCACTCCGAATTCGTTCAGAAACACTAGAGACCAACCCCTCCACGGCCAAT 1140
QY 1353 ACAGTGGATAGAACTAATCATCATAGCTAGAGAAATCTGGAAGCAGAAACTGCTCGTTGCC 1412
Db 1141 ACAGTGGATAGAACTAATCATCATAGCTAGAGAAATCTGGAAGCAGAAACTGCTCGTTGCC 1200
QY 1413 TAA 1415
Db 1201 TAA 1203

RESULT 9
US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; TITLE OF INVENTION: OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR97/01282
; FILING DATE:
; APPLICATION NUMBER: FR 96.08810
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
US-09-214-904-1

Query Match 54.5%; Score 1177.4; DB 3; Length 2229;
Best Local Similarity 77.8%; Pred. No. 1.1e-300;
Matches 1542; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

QY 9 GGCTATAGCGACGAGAGAAATGTCTAGATGCTCAGTCGGTCCCTCCCGCTGACGCTCTC 68
Db 52 GGATACAAGCAGAGAGAAATATCGACGCTCAG-ACGTTCCATTTCTGCTTCCGCTCTTC 110
QY 69 TCTGTCTCAGCCAGACTGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
Db 111 TCTGGTTCCATAGGGCTTGTTCCTTGTAAAGAAACTGACCGAGCCTAGGGCAGCTGTGAGA 170
QY 128 GGAAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCCTGCTACCTCGCACAG 187
Db 171 GGAAGAGGCTGGGGCGCTGGAAACCGAAACTCTTGAGTGCTCTCAGTTACAGCTTACC 230
QY 188 CGGTGCCCGCCGCGCGCTCAGTACCATGGACAGAGCGCTGCCCGCCACGACGCGAGAA 247
Db 231 GAGTCCGACGACGAACTTCAGAACCATGGACAGAGCGCGCGCCGACGAGCATCAGCGA 290
QY 248 TTGCACGTGATGCTTGGGGTACTCAAGTTGCTCCCGACGACCCAGCCCCGGTTCCTGGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGGTCCCCAGCA-----CCTGGCTCTGGCT 344
QY 308 CAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATTCGGGTCGGAACCGCACCAACCT 367
Db 345 CAACTTGTCCCACTTAGATGGCAACCGACGATCCGACCCATTCGGGTCCTTACCGCAGGGGCT 404
QY 368 GGGCGGGAGAGACAGCCTATAGCCCTCCGACCGGACGTCCCTCCATGATACAGGCAATCAC 427
Db 405 TGGCGGGAGCCACAGCCTGTGCCCTCAGACCGGACGCTTCCATGGTCACAGCCATCAC 464
QY 428 GATCATGGCCCTCTACTCCATCGTGTGGGCTCTTCGGAACCTTCTGGGTCAT 487
Db 465 CATCATGGCCCTCTATTCTATCGTGTGTAGTGGGCTCTTTGGAACTTCTCTGGTCT 524
QY 488 GTATGTGATTTGTCAGATACACCAAGATGAAGCTGCCACCAACATCTTACATTTTCAACCT 547
Db 525 GTATGTGATTTGTAAGATATACCAAAATGAAGCTGCCACCAACATCTTACATTTTCAACCT 584
QY 548 TGCTCTGGCAGATGCTTAGCCCAACAGTACCTTCCGCTTCCAGAGTGTGAATTACCTAAT 607
Db 585 TGCTCTGGCAGATGCTTAGCCCAACAGTACGACGCTGCCCTTTCAGAGTGTAACTACCTGAT 644
QY 608 GGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTATCTCCATAGATTACTATAA 667
Db 645 GGAACATGGCCCTTTGGAAACCATCTCTGCAAGATCGTATCTCAATAGACTACTACAA 704
QY 668 CATGTTCCAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACATTTGCAGTCTG 727
Db 705 CATGTTCCAGCATATTTACCCCTCTGCACCATGAGTGTAGCCGCTACATTTGCCGCTG 764
QY 728 CCACCTGTCAAGGCTTAGATTTCCGTACTCTCCCGAAATGCCAAATTTATCAATGTCTG 787
Db 765 CCACCGGTCAAGGCTTAGATTTCCGTACTCTCCCGAAATGCCAAATTTATCAATGTCTG 824
QY 788 CAACTGGATCCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTATGCTGCTACAAATA 847
Db 825 CAACTGGATCCTCTCTTTCAGCCATTTGGTCTGCGGTAATGTTTATGTCGAACCAATA 884
QY 848 CAGGCAAGTTCCATAGATTGTACATACTCTCATCCCAACCTGGTACTGGGAAA 907
Db 885 CAGGCAAGTTCCATAGATTGTACATACTCTCATCCCAACCTGGTACTGGGAAA 944
QY 908 CTTCTGTAAGATCTGTGTTTTTCTTTCGCTTCTTATGTCAGTGTCTCATTTACCGT 967
Db 945 CTTGCTCAAAATCTGTGCTTCTTCTTTCGCTTCTTATGTCAGTGTCTCATCATCTGT 1004
QY 968 GTGCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTTGGCTCAAAGA 1027
Db 1005 GTGTTATGGAATGATCTTCAAGAGTGTCCGATGCTGTGGCTCGGCTCAAAGA 1064
QY 1028 AAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGTGGTGGTGGTGGT 1087
Db 1065 AAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGTGGTGGTGGTGGT 1124
QY 1088 CGTCTGTCGACCTCCCAATTCACATTTACGTCATCTTAAAGCTTGGTGTACAAATCCGAGA 1147
Db 1125 TGTCTGTGACGACCCCATCCCATCTATGTCATCATCAAGACACTGATCAGATTCCAGA 1184
QY 1148 AACTAGCTTCCAGACTGTTTTTCTGGCACTTCTGCAATTTCTAGTTTACAAACAGCTG 1207
Db 1185 AACCATTTCCAGACTGTTTTCTGGCACTTCTGCAATTTCTAGTTTACAAACAGCTG 1244
QY 1208 CCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTCAGAGATT 1267
Db 1245 CCTGAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTTTAGAGATT 1304
QY 1268 CTGTATCCCAACCTCTTCCAACTTGAGCAACAAACTCCCACTCGAATTCGTTCAGAACAC 1327
Db 1305 CTGATCCCAACCTCTTCCAACTTGAGCAACAAACTCTGTCGAATTCGTTCAGAACAC 1364
QY 1328 TAGAGACCAACCTCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387

Db 1021 CTGATGAAATCTCAACGATGTTTCAGAGAGTTCGTATCCCAACCTCTTCCAACTT 1080
Qy 1293 GAGCAAAATCCCACTCGAATTCGTCAAGACATAGACACACCCCTCCACGGCAAT 1352
Db 1081 GAGCAAAATCCCACTCGAATTCGTCAAGACATAGACACACCCCTCCACGGCAAT 1140

Qy 1353 ACAGTGATAGAACTAATCATCAGCTAGAA 1382
Db 1141 ACAGTGATAGAACTAATCATCAGCTAGTA 1170

RESULT 11

US-08-387-707-15
; Sequence 15, Application US/08387707
; Patent No. 6265563
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/387,707
; APPLICATION NUMBER: US/08/387,707
; FILING DATE: 10-SEP-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-387-707-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 1.2e-292;
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

Qy 9 GGCTATAGGACAGAGAGAAATGTCAGATGCTCAGTCCGTTCCCTCCGCTGAGCGTCTC 68
Db 52 GGATACAGACAGAGAGAAATATCGACGCTCAG-ACGTTCAATTCCTGCTGCGCTCTTC 110
Qy 69 TCTGCTCAGCCAGGAGCTGGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
Db 111 TCTGGTTCCATAGGGCTGTGCTTGTAGAAATGACGAGGCTTAGGGCAGCTGTGAGA 170
Qy 128 GGAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGCTACCTCGCACAG 187
Db 171 GGAAGAGCTGGGCGCTGGAAACCCGAAACACTCTTGAGTGTCTCTCAGTTACAGNCTACC 230
Qy 188 CGGTGCGCGCGCGCTGAGTACATGACAGCAGCGCTGCCCGCCACGACCGCCAGCA 247
Db 231 GAGTCCGACGGAAGCAATTCAGAACCATGGACAGCAGCGCGCGCGCCGAGCAATCAGCGA 290
Qy 248 TTGACATGATGCTTGGCGTACTCAAGTTGCTCCCGACGACCCAGCGCCCGGTTCTCGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGCTCCCCAGCA-----CTGGCTCTGGCT 344
Qy 308 CAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAACCGCACCACT 367
Db 345 CAACTTGTCCCACTTAGATGGAAACAGTCCGACCCATGCGGTCTTAACCGAGGCGCT 404
Qy 368 GGGCGGAGAGACAGCCTATGCCCTCCGACCGGAGTCCCTCCATGATCAGCGGCATCAC 427
Db 405 TGGCGGAAACGACAGCCTGTGCCCTCAGACCGGAGCCCTTCCATGGTCAAGCCATCAC 464
Qy 428 GATCATGGCCCTCTACTCGTGTGCGTGGGGCTCTTCGGAACATTTCTCTGGTGCAT 487
Db 465 CATCATGGCCCTCTATCTCTGTGTGTAGTGGGCTCTTTTGGAACTTCTCTGGTGCAT 524
Qy 488 GTATGTGATTGTGAGATACACCAAGATGAAGACTGCCCAACCAATCTACATTTTCAACCT 547
Db 525 GTATGTGATTGTGAAGATATACCAAAATGAAGACTGCCCAACCAATCTACATTTTCAACCT 584
Qy 548 TGCTCTGGCAGATGCTTATAGCCACAGTACCCCTGCCCTTCCAGAGTGTGAATTACCTAAT 607
Db 585 TGCTCTGGCAGATGCTTATAGCCACTAGCAGCGCTGCCCTTTTCAGAGTGTTAACCTGAT 644
Qy 608 GGGAAATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAA 667
Db 645 GGGAACTGGCCCTTTGGAAACATCTCTGCAAGATCGTGTCTCAATAGACTACTACAA 704
Qy 668 CATGTTCAACAGCATATTCACCCCTCTGCACCATGAGTGTGTGATCGATACATTTGCAGTCTG 727
Db 705 CATGTTCAACAGTATCTTACCCCTCTGCACCATGAGTGTAGACGGCTACATTTGCCGTCTG 764
Qy 728 CCACCTGTCAAGGCTTATAGATTTCGTAATCTCCCGAAATGCCAAATTAATTAATGTCTG 787
Db 765 CCACCCGGTCAAGGCTTGGATTTCGGTATACCCCGAAATGCCAAATTTGTCAATGTCTG 824
Qy 788 CAACTGATCCTCTCTTCAGCCATTCGTTCTCTGTAAATGTTTCATGCTGCTACACAAATA 847
Db 825 CAACTGGATCTCTCTTCGCAATTCGTTCTGCGGTAATGTTTCATGCAACCAACCAATA 884
Qy 848 CAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACTGGGAAAA 907
Db 885 CAGGCAAGGTTCCATAGATTGTACCTTCAGTTCTCTCATCCACATGGTACTGGGAGAA 944
Qy 908 CTTCTGTAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCCAGTGTCTCATATTACCGT 967
Db 945 CTTCTCAAAATCTGTGTCTTTCATCTTCGCTTCATCATCGCGGCTCATCATCTGCT 1004
Qy 968 GTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAGA 1027
Db 1005 GTGTTATGGAATGATGATCTTACAGCTCAAGAGTGTCCGATGCTGTGCGGCTCCAAGA 1064
Qy 1028 AAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGCTGGTGTGCTGTGTTTCAT 1087
Db 1065 AAAGGACAGGAATCTTCGCAAGGATCACCCGAGTGTGCTGGTGTGCTGTGTTTAT 1124
Qy 1088 CGTCTGTGACTCCCATTCACATTTACGTTCATCATTTAAAGCCTTGGTTACAAATCCAGA 1147
Db 1125 TGTCTGTGACCCCATCCACATCTATGTCATCATCAAAGCACTGATCAGATTCCAGA 1184
Qy 1148 AACTAGCTTCAGACTGTTTCTTGGCACTTCTGATGTTGCTCTAGTTGTACACAAACAGCTG 1207
Db 1185 AACCACTTTCAGACTGTTTCTCTGGCACTTCTGCAATTTGGCTTGGGTTTACAAACAGCTG 1244
Qy 1208 CCTCAACCCAGTCTTTATGCAATTTCTGGATGAAATCTCAACGATGCTTCAGAGATT 1267
Db 1245 CCTGAAACCCAGTCTTTATGCGTTCTTGGATGAAATCTCAACGATGTTTATAGAGATT 1304
Qy 1268 CTGTATCCCAACCTCTTCCAACTTGAAGCAACAAACTCCACCTCGAATTCGTTCAGAACAC 1327
Db 1305 CTGATCTCCCACTTCTCTCCACATCGAACAGCAAACTCTGCTCGAATCCGTCAAAACAC 1364
Qy 1328 TAGAGACCACTTCCACGGCCCAATACAGTGGATAGAACTAATCATCATGCTAGAGAAATCT 1387
Db 1365 TAGGAAACACCTTCCACGGCTAATAACAGTGGATCGAACTTAACCAACCGAGCTAGAGAAATCT 1424

1388 GGAACGAGAACTGCTCCGTTCCCTTACAGGCTCTCATGCGATTCGACCTTCACCAAG 1447
1425 GGAACGAGAACTGCTCCATTCCTTAACTGGGTCCCAAGCCATCCAGACCTTCGCTAAA 1484
1448 CTTAGAGCCACCATGTATGTGGAAGCAGTTGCTTCAAGAAATGTGTAGAGGCTCTAAT 1507
1485 CTTAGAGGTCGCACTACTTGGATCAGTTGCTGTGAGGTTGTGGAGGCTCTGGT 1544
1508 TCTTAGGAAAGTGCTACTTTTAGGTCAATCCAACTCTTTCTCTCTGCGCCACTCTGT 1567
1545 TTCTCGTGAAGACATCTGATCTGCTGATCAATCAAGTCAATCTCTCTGCTATTC-ACG 1603
1568 CTGCACATTTAGAGGACACCAAGTAAGTGGAGCATTTGGAAGGAAGGATATACCA 1627
1604 CTACACGTCAGAGACA---CTCAGACTGTGTCAAGCACTCAAGGAAGAGAGACTGCGAGC 1660
1628 CACGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGGTATG 1685
1661 CACTACTGAATCAGCTCATGTACAGAAACATCCATGGACCAATATCTCTGTGGTATG 1720
1686 TGAATTGAAGTCATCATATAAAGGTGACCTTCTGTCTGT- AAGATTTTATTTTCAAGCAA 1744
1721 TGATTTGTGATCAACATAGAAGTGACCTTCCCTATGTGGAATTTTAAATTTCAAGGAA 1780
1745 ATATTTATGACCTCAACAAGAGAACCA---TCTTTTGTAAAGTTCACCGTAGTAACA 1800
1781 ATACTTATGATCTCATCAAGGGGAAAAAATAGATGTCACTTGTAAATTTCACTGTAGTAGT 1840
1801 CATAAAGTAAATGTCTACCTCTGATCAAGCACCCTTGAATGGAAGGTCCGAGTCTTTTAG 1860
1841 CATTAAGGAAGACTACCTCTGACCTTAGCCAGTCAACCTCTATGGAAGTTCCATAG 1900
1861 TGTTTTTGAAGGGAATGAATCAATTTATTTTATTTAGACTTTTAACTTCAACTTAAAT 1920
1901 GGAATATGTGAGGAA-----AATGTTGCTTCCAAATAAATTTTACCTTTATGT 1951
1921 TAGCATCTGGCTAAGGCATCATTTTCACCT 1950
1952 TATAGTCTAGTTAAGACATCAGGGGCATCT 1981

RESULT 12

US-08-405-271A-15
; Sequence 15, Application US/08405271A
; Patent No. 6432652
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/405,271A
; FILING DATE: 14-MAR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.22
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500

; TELEFAX: (202) 887-0763
; TELEX: 90-4030 MRSNFOERSWSH
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-405-271A-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 1.2e-292;
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

QY 9 GCCTATAGGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCGCTCGCTGACGCTCCTC 68
DB 52 GGATCAAGCAGAGAGAGAAATATCGGACGCTCAG-ACGTTCCATTTCTGCTCGCTCTCTC 110
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGGCGAAA 127
DB 111 TCTGGTTCACCTAGGCTTGCTCTTGTAAAGAACTGACGGAGCCTAGGCGAGCTGTGAGA 170
QY 128 GGAACGGCTGAGGCGCTTTGGAAACCGGAAAAGTCTCGGTGCTCTCTGGCTACCTCGCACAG 187
DB 171 GGAAGAGGCTGGGGCGCTCGGAAACCGGAACTCTTGAGTGTCTCTCAGTTACAGNCTACC 230
QY 188 CGGTCCCGCCGCGCGCTCAGTACCATGACAGCAGCGCTGCCCGCCACGAAACGCCAGCAA 247
DB 231 GAGTCCGAGGAAGCATTTAGAACCATTTGACAGAGCGCCGCCCGGAGAAATCATCAGCGA 290
QY 248 TTGCACTCATGTGCTGGGCTACTCAAGTTGCTCCCCAGCACCCAGCCCGGTTCTGGGT 307
DB 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGCTCCCCAGCA-----CCTGGCTCTGGCT 344
QY 308 CAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTTCGAAACGCCACCAACCT 367
DB 345 CAACTTGTCCCACTTAGATGGAAACCCAGTCCGACCCATCGGTTCCTAAACCGGCGGCT 404
QY 368 GGGCGGGAGAGACAGCCTATGCCCTCCGACCGGAGTCCCTCCATCATCAGCGCCATCAC 427
DB 405 TGGCGGGAACAGACAGCCTGTGCCCTCAGACCGGAGCCCTTCCATGCTCAGGCCATCAC 464
QY 428 GATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTTGGGAAACTTCTGTCGTAT 487
DB 465 CATCATGGCCCTCTATTCTATCTGTGTGTAGTGGGCTCTTTGGGAAACTTCTGTCGTAT 524
QY 488 GTATGTGATTTGAGATACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547
DB 525 GTATGTGATTTGAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584
QY 548 TGCTCTGGCAGATGCCCTTAGCAACCATCTCTCTGCAAGATAGTATCTCCATGATTTACTATAA 607
DB 585 TGCTCTGGCAGATGCCCTTAGCACAATAGCAGCTGCGCTTTTACAGAGTTTAACTACTGAT 644
QY 608 GGGAAACATGGCCATTTTGGAAACCATCTCTCTGCAAGATAGTATCTCCATGATTTACTATAA 667
DB 645 GGGAACTGGCCCTTTGGAAACATCTCTCTGCAAGATAGTATCTCAATAGACTACTACAA 704
QY 668 CATGTTCCACAGCATATTCACCTCTGACCATAGTGTGATGATGATGATGATGATGATGAT 727
DB 705 CATGTTCCACAGTATCTTCCACCTCTGACCATAGTGTGATGATGATGATGATGATGATGAT 764
QY 728 CCACCTGTCAAGGCTTAGATTTCCGTAATCTCCCGAAATGCGGAAATTTATCAATGTCTG 787
DB 765 CCACCGGCTCAAGGCTTGGATTTCCGTACCCCGGAAATGCGGAAATTTGCAATGTCTG 824
QY 788 CAACTGGATCTCTCTTTCAGCCATTTGCTTCTCTGTAATGTTTCAATGGCTACAAACAAATA 847
DB 825 CAACTGGATCTCTCTTTCAGCCATTTGCTTCTGCGCGTAATGTTTCAATGCAACCAATAA 884
QY 848 CAGGCAAGGTTCCATAGATTGACATTAATCTCTCATCAACTGCTAGTGGGAA 907
DB 885 CAGGCAAGGTTCCATAGATTGCAACCTCAGTTCTCTCTCATCCACATGGTACTGGGAA 944

908 CCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTATGSCCAGTGTCTCATATTACCGT 967
945 CTTCTGCTCAAAATCTGTGCTCTTCATCTTCGCTTCATCATCCGGGCTCATCATCACTGT 1004
968 GTGCTATGGAAGTATGATCTTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027
1005 GTGTTATGGAAGTATGATCTTACAGCTCAAGAGTGTCCGATGCTCTGGGCTCCAAAGA 1064
1028 AAAGGACAGAAATCTTGAAGATACACAGATGAGTGTGCTGTGCTGTGCTGTGCTGTAT 1087
1065 AAAGGACAGAAATCTGCGAGATCAACCGATGAGTGTGCTGTGCTGTGCTGTATTTAT 1124
1088 CGTCTGCTGACCTCCCATTCACATTTACGTCATCATTAAGACCTTGTGTACAAATCCAGA 1147
1125 TGTCTGCTGACCCCATTCACATCTATGTCATCATCAAGACCTGATCAAGATTCAGA 1184
1148 AACTACGTTCCAGACTGTTCTTGGCACTTCTGCAATGCTCTAGTTTACAAACAGCTG 1207
1185 AACCACTTTCAGACTGTTCTTGGCACTTCTGCAATGCTTGGTTTACAAACAGCTG 1244
1208 CCTCAACCCAGTCTTTATGATCTTCTGATGAAACTTCAACGATGCTTCAAGAGTT 1267
1245 CCTGAACCCAGTCTTTATGCTTCTTGGATGAAACTTCAACGATGTTTATAGAGTT 1304
1268 CTGTATCCCACTCTTCCAACTTGAACATGAGCAACAACTCCACTCGAATTCGTCAACAC 1327
1305 CTGCATCCCACTCTTCCAACTTGAACATGAGCAACAACTCTGCTCGAATTCGTCAACAC 1364
1328 TAGAGACACCCCTCCACGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387
1365 TAGGAACACCCCTCCACGGCTAATACAGTGGATGAACTAATCACCAGCTAGAAATCT 1424
1388 GGAAGCAGAACTCTCTCGTTGCCCTAAACAGGCTCTCATGCCATTCGACCTTCCACCAAG 1447
1425 GGAAGCAGAACTCTCTCGTTGCCCTAACTTGGCTCCACGCTCCAGACCTCGCTAAA 1484
1448 CTTAGAAGCCCATGATGATGGAAGCAGGTTGCTTCAAGATGTTAGGAGGCTCTAAT 1507
1485 CTTAGAGGCTGCCATCTACTTGGAACTCAGTTGCTGTGAGGGTTTGGGAGGCTCTGGT 1544
1508 TCTCTAGAAAGTGCCTACTTTTAGTTCATCAACCTCTTTCCTCTCTGGCACTCTGCT 1567
1545 TTCCTGGAAGAGCATCTGATCCTGCAATCATTTCAAGTCATTCCTCTCTGGCTATTC-ACG 1603
1568 CTGCACATTTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGAAGGAAAGGAATATACCA 1627
1604 CTACACGTCAGAGACA---CTCAGACTGTGTCAAGCACTCAGAAGGAAGAGACTGCAGGC 1660
1628 CACGAGAGTCCAGATT--TGTGCAAGACCCAGTGGAAACCAAAACCCATCGTGGTATG 1685
1661 CACTACTGAATCCAGCTCATGTACAGAAACATCAATGGACCAACAATCTCTGTGGTATG 1720
1686 TGAATTTGAAGTCATCAATAAAGGTGACCTTCTGTCTGT- AAGATTTTATTTTCAAGCAA 1744
1721 TGATTTGTGATCAACATAGAAGGTGACCTTCCCTTAAGTGGAAATTTTAAATTTCAAGAA 1780
1745 ATATTTATGACTCAACAAAGAAAGAACCA---TCTTTTGTAAAGTTACCGTAGTAACA 1800
1781 ATACTTATGATCTCATCAAGGGAATAATAGATGTCACCTTGTAAATTCACCTGTAGTGATG 1840
1801 CATAAAGTAATGCTACTCTGATCAAGACACTTGAATGAAGGTCGAGTCTTTTATAG 1860
1841 CATAAAGGAAAGGCTTACCTCTGACCTCTAGGCCAGTCCACCTCTATGGAAGATTCATAG 1900
1861 TGTTTTTCAGGGAATGAATCAATTTCTATTTTATAGACTTTTAACTTTCAACTTAAAT 1920
1901 GGAATATGTAGGGGAA-----AATGTTGCTTCCAAATTAATTTTACCTTTATGT 1951
1921 TAGCATCTGGCTAAGGCATCAATTTTCACT 1950
1952 TATAGTCTAGTTAAGACATCAGGGCATCT 1981

RESULT 13
US-08-430-286A-1
; Sequence 1, Application US/08430286A
; Patent No. 6225080
; GENERAL INFORMATION:
; APPLICANT: Uhl, George R.
; APPLICANT: Eppler, C. Mark
; APPLICANT: Wang, Jai-Bel
; TITLE OF INVENTION: Mu-Subtype Opioid Receptor
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby PC
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/430,286A
; FILING DATE: 28-APR-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Robinson, Joseph R.
; REGISTRATION NUMBER: 33,448
; REFERENCE/DOCKET NUMBER: 0646/1A843-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-527-7700
; TELEFAX: 212-753-6237
; TELEX: 236687
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2135 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: Rattus rattus
; IMMEDIATE SOURCE:
; CLONE: mu receptor cDNA
; US-08-430-286A-1

Query Match 52.3%; Score 1130.2; DB 3; Length 2135;
Best Local Similarity 78.3%; Pred. No. 3.3e-288;
Matches 1457; Conservative 0; Mismatches 368; Indels 36; Gaps 7;
Qy 190 GTGCCCCCGCGGTGCTAGTACCATGACAGCAGCGCTGCCCCACCAAGCCAGCAATT 249
Db 8 GTCCGACAGCAGGCTTTCAGACCATGACAGCAGCAGCGGCCAGGGAACACCCAGCACT 67
Qy 250 GCATGTGATGCTTGGCGTACTCAAGTTGCTCCCGACGACCCAGCCCGCGGTTCCTGGGTCA 309
Db 68 GCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCGACGCA-----CCTGGCTCCTGGCTCA 121
Qy 310 ACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATCGGTCGCAACCGCAACCACTGG 369
Db 122 ACTTGTCCCACTTAGATGGCAACCCAGTCCGATCCATCGGCTCTGAACCGCACCGGCTTG 181
Qy 370 GCGGGAAGACAGCTATGCTCCGACCCGAGTCCCTCCATGATCAGCGCCATCAGCA 429
Db 182 GCGGGAACGACAGCTGTGCTCCCTCAGACCCGAGCCCTTCATGTCACAGCCATTACCA 241
Qy 430 TCATGGCCCTCTACTCCATCTGTGCTGTGGGCTCTTCGGAATCTTCTGCTCATGT 489
Db 242 TCATGGCCCTCTACTCTATCTGTGTGTAGTGGGCTCTTCGGAATCTTCTGCTCATGT 301
Qy 490 ATGTGATTGTGATACATACCAAGATGAAGACTGCCCAACATCTACATTTTCAACCTTG 549

Db 302 ATGTGATTGTAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTG 361
Qy 550 CTCCTGCAGATGCCCTTAGCAGCAGATACCCCTGCGCTTCCAGAGTGTGAATTAACCTAATGG 609
Db 362 CTCCTGCAGACGCCCTTAGCAGCAGATACCCCTGCGCTTCCAGAGTGTGAATTAACCTAATGG 421
Qy 610 GAACATGGCCATTTGGAACCATCTCTTTCGAAGATAGTGATCTCCATAGATTAATTAACA 669
Db 422 GAACATGGCCCTTCGGAACCATCTCTGCAAGATCGTGATCTCAATAGATTAATTAACA 481
Qy 670 TGTTCACAGCATATTACCCCTCTGCACCATGAGTGTGTGATCGATATCATTTGAGCTTGCC 729
Db 482 TGTTCACAGCATATTACCCCTCTGCACCATGAGCGTGGACCGCTACATTTGCTGCTGCC 541
Qy 730 ACCCTGTGAAGCCCTTAGATTTCCGTAATTCGCTACCCGAAATGCCAAAATTAATCAATGTCTGCA 789
Db 542 ACCCAGTCAAGCCCTTGGATTTCCGTAATTCGCTACCCGAAATGCCAAAATTCGTAACGCTGCA 601
Qy 790 ACTGGATCCTCTCTTCAGCCATTTGGTCTTCCTGTAATGTTTCATGGCTACACCAAAATACA 849
Db 602 ACTGGATCCTCTCTTCGCAATCGGCTCTGCTGTAATGTTTCATGGCAACCAAAATACA 661
Qy 850 GGCAGAGTTCCATAGATTTGACATAACATTTCTCTCATCCAACTGGTACTGGGAAACC 909
Db 662 GGCAGGGTCCATAGATTGCAACCTCACGTTCTCCACCAACCTGGTACTGGGAAACC 721
Qy 910 TCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTAAGCAGTGTCTCATATTACGTTG 969
Db 722 TGCTCAAAATCTGTGCTTTATCTTCGCTTTCATCATGCGGCTCTCATCATCACTGTGT 781
Qy 970 GGTATGGAATGATGATCTTCGCGCTCAAGAGTGCAGCATGCTCTCTGGCTCCAAAGAA 1029
Db 782 GTTACGGCTGATGATCTTACGACTCAAGAGGCTTCGATGCTATCGGGCTCCAAAGAA 841
Qy 1030 AGGACAGGAATCTTCAAGAGGATCACCAAGATGGTGTGCTGGTGGTGTGCTGTTTCATCG 1089
Db 842 AGGACAGGAATCTGCGCAGGATCACCGGATGGTGTGCTGGTGGTGTGTTTATTCG 901
Qy 1090 TCTGTGGAATCTCCATTCATATTACGTATCATATTAAGCCTTGGTTACAAATCCAGAAA 1149
Db 902 TCTGTGGAATCTCCATTCATCTAGCTCATCAATCAAGCGGTGATCAGGATTCAGAAA 961
Qy 1150 CTACGTTCCAGACTGTTTCTTGCACTTCTGATGCTCTAGTGTACAAACAGCTGCC 1209
Db 962 CCACATTTCAGACCGGTTTCTTGCACTTCTGCAATGCTTTGGGTATACGAAACAGCTGCC 1021
Qy 1210 TCAACCCAGTCTCTTATGATTTCTGGATGAAACTTCAAGGATGCTTCCAGAGATTTCT 1269
Db 1022 TGNATCCAGTTCTTTAGCGCTTCTGGATGAAACTTCAAGGATGCTTCCAGAGATTTCT 1081
Qy 1270 GTATCCCAACCTTCTCCAACTAGAGCAACAAATCCACTCGAATTCGTTCAGAACACTA 1329
Db 1082 GCATCCCAACCTCTGTCAGATGCAACAGCAAAATCCACTCGAGTCCGTCAGAACACTA 1141
Qy 1330 GAGACACCCCTCCAGCGCAATACAGTGGATAGACTTAATCATCAGCTAGAAATCTGG 1389
Db 1142 GGGAACTCCCTCCAGCGTAAATACAGTGGATGGAATCAACCCAGCTAGAAATCTGG 1201
Qy 1390 AAGCAGAAATGCTCGGTTGCCCTTAACAGGGTCTCATGCCATTCGACCTTCCAAAGCT 1449
Db 1202 AGGCAAAATGCTCTCAATGGCTTAATGCTGCTACACCATCCAGACCTCGTAAGCT 1261
Qy 1450 TAGAAGCCCACTGATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAATTC 1509
Db 1262 TAGAGCCGCCATCTACGTGGAAATCAGGTTGCTGTGCTGAGGTTGTTGGAGGCTCTGGTT 1321
Qy 1510 TCTAGAAAGTGCCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCACTCTGCTCT 1569
Db 1322 CCTGAGAAA---CCATCTGATCCTGCAATTCAGAGTCAATTCCTCTCTGGCTACTTCACTCT 1378
Qy 1570 GCACATTTAGAGGAGCAGCCAAAGTAAGTGGAGCATTTTGGAGGAAAGGAATATACCA 1629

Db 1379 GCACATGAGAGAT---GCTCAGACTGTATCAAGTACTCAGAAAGAGAGACTACCGGACA 1435
Qy 1630 CCGAGAGTCCAGATTTGTGCAAGACACCCAGTGGG-----ACCAAAACCCATCG 1678
Db 1436 CTCCTGAATTCAGCTCATGTACAGAACCATCTGAAACACCCAGTGACCAATGCTCTG 1495
Qy 1679 TGGTATGTGAATTTGAAGTCACTATAAAAGGTGACCCCTTCTGTCTGTAAGATTTT---ATT 1736
Db 1496 TGGTATGTGAATTTTCGATCATATAGAGGTGACCCCTCTCTATGTAGAATTTTATTTT 1555
Qy 1737 TCAAGCAATATTTATGACCTCAACAAAGAGA---ACCATCTTTTGTGTAAGTTCACCGTAG 1795
Db 1556 TCAAGCAATATCTTATGACCTCATCAAGAAATAATGTCACTTGTAAATTCACGTAG 1615
Qy 1796 TAAACATATAAGTAAATGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCCGAGTCTT 1855
Db 1616 TGATACATAAAGTAAATGCTACCTCTGACCTCTGACCC-----AGTCACCTTCTG 1665
Qy 1856 TTTAGTGTTTTTCGAAGGGAATGAATCCATTAATTTTATTTAGACTTTTAACTTCAACTT 1915
Db 1666 TAGAGATTCAGTCTCTTTTGTGATGGAATACATCATTTTCCAACTTAAACCTTCACTT 1725
Qy 1916 AAAATTAGATCTGGCTAAGGATCATTTTCACTCCATTTCTTGGTTTGTGTTGTTT 1975
Db 1726 GAAGTTATGCTAGTTAAGACATCAGGGGCACTCCGTTTCTTGGTTTGTGTTGTTT 1785
Qy 1976 AAAAAATAACATCTCTTTCATCTAGCTCCATAATTTGCAAGGAGAGATTAAGCATGAA 2035
Db 1786 AAGAAGACGACATCTTCTCTTGTGTGTGTTGAAATGAAAGGATTAAGAGCACA 1845
Qy 2036 G 2036
Db 1846 G 1846

RESULT 14

US-08-889-108-1
; Sequence 1, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (cdna)
FEATURE:
NAME/KEY: CDS
LOCATION: 214..1410
US-08-889-108-1

Query Match 50.88; Score 1099; DB 3; Length 1618;
Best Local Similarity 83.34; Pred. No. 5.1e-280;
Matches 1311; Conservative 0; Mismatches 250; Indels 12; Gaps 5;
QY 9 GGCCTATAGGAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTCGAGCGCTCCCTC 68
DB 11 GGTACAGCAGAGAGAGAAATATCAGAGCTCAG-ACGTCCCTCTCTGCTCGCGCTCTTC 69
QY 69 TCTGTCTCAGCCAGGAGCTGTTTCTGTAAGAAACAGCAGAGAG-CTGTGGCAGCGGCGAAA 127
DB 70 TCTGGTTCCACTAGGCGTGGTCCATGTAAGAAATCTGACGGAGGCTAGGGCAGCTGTGAGA 129
QY 128 GGAAGGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTCTCTGCTACCTCGCACAG 187
DB 130 GGAAGAGGCTGGGGCGGTGGAAACCGAAAGTCTGAGTCTCTCAGTTACAGCCTAC-C 188
QY 188 CGGTGCCCGCCCGCGCTCAGTACATGAGCAGCAGCGCTGCCCGCCACGAAACGCGCAGCAA 247
DB 189 TAGTCCGACAGAGGCTTTCAGACCATGGAAGCAGCAGCAGCGGCCGAGGGAACACCGAGA 248
QY 248 TTGCACCTGATGCTTGGCGTACTCAAGTTGCTTCCCGACGACCCAGCGCCCGGTTCTGGGT 307
DB 249 CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTTCCCGACGA-----CTGGCTCTGGCT 302
QY 308 CAATCTGTCCACTTAGATGCAACCAAGTCTCGGACCCATGCGGTCCGACCGCAGCAACCT 367
DB 303 CAATCTGTCCCGCTTATGATGCAACCAAGTCTCGGACCCATGCGGTCTGAAACCGCAGCGGCT 362
QY 368 GGGCGGAGAGACAGCCTATGCTCCCGACCGGAGTCCCTCCATGATCAGCGCCATCAC 427
DB 363 TGGCGGAACAGACGCTGTGCTTCCCGACCGGAGCCTTCCATGTCAGCGCATTAC 422
QY 428 GATCATGGCCCTCTACTCTATCGTGTGCTGGGTCTTCCGAAATCTCTGTGTCAT 487
DB 423 CATCATGGCCCTCTACTCTATCGTGTGCTGGGTCTTCCGAAATCTCTGTGTCAT 482
QY 488 GTATGTGATGTGATGATACCAAGATGAGAGCTGCCACCAACATCTACATTTTCAACCT 547
DB 483 GTATGTGATGTGATGATACCAAGATGAGAGCTGCCACCAACATCTACATTTTCAACCT 542
QY 548 TGCTCTGGCAGATGCTTACGACCACTGACCTGCTCCCTTCCAGAGTGTGAATACCTAAT 607
DB 543 TGCTCTGGCAGATGCTTACGACCACTGACCTGCTCCCTTCCAGAGTGTGAATACCTAAT 602
QY 608 GGGAAACATGGCCATTTTGGAAACCATCTTTCGAAGATAGTATCTCCATAGATTAATAA 667
DB 603 GGGAAACATGGCCCTTCCGAAACCATCTTTCGAAGATAGTATCTCCATAGATTAATAA 662
QY 668 CATGTTCCAGCAGATATTCACCTCTGACCATGAGTGTGATGATGATGATGATGATGATG 727
DB 663 CATGTTCCAGCAGATATTCACCTCTGACCATGAGTGTGATGATGATGATGATGATGATG 722
QY 728 CCACCTGTCAAGGCTTGTGATTTCCGTTCTCCGAAATGCCAAATATTCATGTCG 787
DB 723 CCACCTGTCAAGGCTTGTGATTTCCGTTCTCCGAAATGCCAAATATTCATGTCG 782
QY 788 CAATGGATCTCTCTTTCAGCAGATGCTTCTTCTGTAATGTTTCATGCTGTCACAAATAA 847
DB 783 CAATGGATCTCTCTTTCAGCAGATGCTTCTTCTGTAATGTTTCATGCTGTCACAAATA 842
QY 848 CAGGCAAGGTTCCATAGATGATGATCACTAAACATTTCTCATGCAACCTGGTACTGGGAAA 907
DB 843 CAGGCAAGGTTCCATAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 902
QY 908 CCTCGTGAAGATCTGTGTTTTCATCTTTCGCTTTCATTTATGCCAGTGTCTCATTTACCGT 967

DB 903 CCTGTCAAATACTGTGCTTATCTTCTGCTTTTCATCATGCCGATCCTCATCATCTGT 962
QY 968 GTGCTATGAGTATGATGATCTTGGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027
DB 963 GTGTTACGGCTGATGATCTTAGACTCAAGAGCGTTCGATGCTATCGGCTCCAAAGA 1022
QY 1028 AAAGGACAGGAATCTTTCGAAGGATCACAGGATGCTGCTGGTGGTGGTGGTGGTGGTGGT 1087
DB 1023 AAAGGACAGGAATCTTTCGAAGGATCACAGGATGCTGCTGGTGGTGGTGGTGGTGGTGGT 1082
QY 1088 CGTCTGCTGAGCTCCCATTTCAATTTACGTCATCATTAAGCCTTGGTGTACATCCAGA 1147
DB 1083 CGTCTGCTGAGACCCCATTCATCTACGTCATCATCAAGCGCTGATCAGGATTCAGA 1142
QY 1148 AACTAGTCTCCAGACTGTTTCTTGGCAGCTTCTGCAATGCTCTAGGTTTACACAAACAGCTG 1207
DB 1143 AACCACATTTACAGACCGTTTCTTGGCAGCTTCTGCAATGCTTGGGTTTACACGAAACAGCTG 1202
QY 1208 CCTCAACCCAGCTCTTTATGCAATTTCTGGATGAAATCTTCAACAGATGCTTCAGAGATT 1267
DB 1203 CCTGAATCCAGTTCTTTACGCTTCTTGGATGAAATCTTCAAGCGATGCTTCAGAGATT 1262
QY 1268 CTGTATCCCAACCTCTTCCAAATTTAGGCAACAAACTCCACTCCGATTCGTCAGACAC 1327
DB 1263 CTGATCCCAACCTCTTCCCAATTTAGGCAACAAACTCCACTCCGATTCGTCAGACAC 1322
QY 1328 TAGAGACCACTCCCTCCAGCGCAATACAGTGGATGAAATCTTCAATCATCAGCTAGAAATCT 1387
DB 1323 TAGGGAACATCCCTCCAGCGCTTAACTAGTGGATGAAATCTTCAACAGCTAGAAATCT 1382
QY 1388 GGAAGCAGAACTGCTTCCGTTGCTTCCCTTAAAGAGGCTCTCATGCCATTCGACCTTCAAC 1447
DB 1383 GGAAGCAGAACTGCTTCCCTTAACTTCCCTTAACTTCCCTTCAACAGCTTCAAC 1442
QY 1448 CTGAGAGCCACCATGATGTTGGAAGCAGGTTGCTTCAAGAAATGTTAGAGGCTCTAAT 1507
DB 1443 CTGAGAGCCACCATGATGTTGGAAGCAGGTTGCTTCAAGAAATGTTAGAGGCTCTG 1502
QY 1508 TCTCTAGGAAGTGGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1567
DB 1503 TTTCTGAGAAA---CATCTGATGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1559
QY 1568 CTGACATAGAG 1580
DB 1560 CTGACATAGAG 1572

RESULT 15

US-08-889-108-3
; Sequence 3, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

```

; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,959
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cdna)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 339..1235
; US-08-889-108-3

Query Match          50.8%; Score 1099; DB 3; Length 1618;
Best Local Similarity 83.3%; Pred. No. 5,1e-280;
Matches 1311; Conservative 0; Mismatches 250; Indels 12; Gaps 5;

QY 9 GGCCTAGGCAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCGCGCTGACGCTCCTC 68
DB 11 GGCCTAACGACAGGAGAAATATCAGACGCTCAG-AGTTCCCTTTCTGCGCTGCCGCTCTTC 69

QY 69 TCTGCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGGCGAAA 127
DB 70 TCTGGTTCCACTAGGGCTGGTCCATGTAGAAATCTGACGAGGCTAGGSCAGCTGTGAGA 129

QY 128 GGAAGCGGCTGAGGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTCGGTACCTCGCACAG 187
DB 130 GGAAGAGGCTGGGGCGCTGGAAACCCGAAAAGTCTGAGTGTCTCAGTTTACAGCCTTAC-C 188

QY 188 CGGTGCCCGCCCGCGCTCAGTACCATGACGACGAGCTGCCCGCCACGAAACCCAGCNA 247
DB 189 TAGTCCGACAGCGGCTTTCAGCACCATGACGACGACGACCGGCCCGGAAACACCAACGGA 248

QY 248 TTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGACCGCGCCGCTTCTCGGT 307
DB 249 CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCGACA-----CCTGGCTCTGGCT 302

QY 308 CAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGGGTGCGAAACCGCACCAACCT 367
DB 303 CAACTTGTCCCACTTGTATGGCAACCCAGTCCGATCCATGCGGTCTGAAACCGCACCGGGCT 362

QY 368 GGGCGGAGAGACAGCCTATGCCCTCCGACCGGAGTCCCTCCATGATCAGCGGCATCAC 427
DB 363 TGGCGGGAACGACAGCCTGTGGCTCAGACCGGACGCTTCCATGGTTCACAGCCATTAC 422

QY 428 GATCATGGCCCTCTACTCCATCGTGTGCTGTGGGGCTCTTTCGGAAACTTCTCGTGTAT 487
DB 423 CATCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCTCTTTCGGAAACTTCTCGTGTAT 482

QY 488 GTATGTGATTTGTGAGATACCAAGATGAAGACTGCGCAACCACTTACATTTTCAAACCT 547
DB 483 GTATGTGATTTGTGAAGATACCAAAATGAAGACTGCGCAACCACTTACATTTTCAAACCT 542

QY 548 TGCTCTGGCAGATGCTTTAGCACACGATACCTTCCAGAGTGTAATTAACCTAAT 607
DB 543 TGCTCTGGCAGAGCGCTTAGCACACGATACCTTCCAGAGTGTAATTAACCTAAT 602

QY 608 GGGAAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTGTCTCCATAGATTAATATAA 667
DB 603 GGGAAACATGGCCCTTCGGAAACCATCTCTGCAAGATCGTGATCTCAATAGATTAATACAA 662

QY 668 CATGTTTACCAGCATATTCAACCTCTGCAACCATGAGTGTGTGATCGATACATTTGCAATCTG 727
DB 663 CATGTTTACCAGCATATTCAACCTCTGCAACCATGAGCGTGGGACCGGTACATTTGCTGTCTG 722
```

```

QY 728 CCACCCCTCTCAAGGCTTTAGATTTCCGTAATCCCGGAAATGCCAAAATTTATCAATGTCTG 787
DB 723 CCACCCAGTCAAAGCCCTGGATTTCCGTAACCCCGGAAATGCCAAAATCGTCAACGCTCTG 782

QY 788 CAACTGGATCCTCTCTTCCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAAACAAATA 847
DB 783 CAACTGGATCCTCTCTTCCAGCCATCGGTCTGCTGTAATGTTTCATGGCAACCAACAAATA 842

QY 848 CAGGCAAGGTTCCATAGATTTGACACTAACTTCTCTCATCCAACTGTGTACTGGGAAA 907
DB 843 CAGGCAAGGTTCCATAGATTTGACCCCTCACGTTTCTCCCAACCACTGTGTACTGGGAAA 902

QY 908 CCTCGTGAAGATCTCTGTTTTTCATCTTGGCCCTTCAATATGCCAGTGTCTCATCATACCT 967
DB 903 CCTGCTCAAAATCTGTGCTTTTATCTTCCGTTTCATCATGCCGATCCTCATCATCTGT 962

QY 968 GTGCTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGTCTCTTGGCTCCAAAGA 1027
DB 963 GTGTTACGGCCTGATGATCTTACGACTCAAGAGCGTTTCCGATGTCTATCGGGCTCCAAAGA 1022

QY 1028 AAAGGACAGGAATCTTCCGAAGGATCACGAGGATGCTGTGGTGTGGTGTGGTGTCTCAT 1087
DB 1023 AAAGGACAGGAATCTGCGAGGATCACCGGATGCTGTGGTGTGGTGTGGTGTGTATTTAT 1082

QY 1088 CGTCTGCTGGACTCCCATTTCACTTACGTTTCACTTAAAGCCTTTGGTTTACAATCCCAGA 1147
DB 1083 CGTCTGCTGGACCCCATCCATCTACGTCATCATCAAGCGCTGATCAGCATTTCCAGA 1142

QY 1148 AACTACGTTCCAGACTGTTTTCTTGGCACTTCTGCAATTTGCTTAGGTTTACAAACAGCTG 1207
DB 1143 AACCACATTTCAGACCGTTTCTGCGACTTCTGCAATTTCTTGGGTTTACACGAACAGCTG 1202

QY 1208 CCTCAACCCAGTCTCTTATGCAATTTCTGGATGAAAACCTTCAAAACGATGCTTCAGAGATT 1267
DB 1203 CTTGAATCCAGTTCTTTTACGCTTCTGATGAAAACCTTCAAGCGATGCTTCAGAGATT 1262

QY 1268 CTGTATCCAAACCTCTTCCAACTTGAACAAACAACTCCACTCCAAATTCGTCAAGAACAC 1327
DB 1263 CTGCATCCCAACCTCTGTCACGATCGAACAGCAAACTCCACTCGAGTCCGTCAAGAACAC 1322

QY 1328 TAGAGACCAACCCCTCCACGGCCAAATACAGTGGATGAACTAATCATCAGCTAGAAAATCT 1387
DB 1323 TAGGGAACATCCCTCCACGGCTAATACAGTGGATCGAACTAACCAACCACTAGAAAATCT 1382

QY 1388 GGAAGCAAAACTGCTCCGTTGCCCTAACAGGCTCTCATGCCATTTCCGACCTTCACCAAG 1447
DB 1383 GGAAGCAAAACTGCTCCATTTGCCCTAATCTGGGTCTCACACCATCCAGACCTTCGCTAAG 1442

QY 1448 CTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAAT 1507
DB 1443 CTTAGAGCGCGCATCTACGTGGATCAGGTTGCTGTAGGGTGTGTGGAGGCTCTGTGT 1502

QY 1508 TCTCTAGGAAAGTGCCTACTTTTATAGTTCATCCAACTCTTTTCTCTCTGCGCACCTGTGT 1567
DB 1503 TTCTCGGAAA--CCATCTGATCCTGCAATTCAAAGTCATTCCTCTCTGCGCTACTTCACT 1559

QY 1568 CTGCACATTAGAG 1580
DB 1560 CTGCACATGAGAG 1572
```

Search completed: January 8, 2006, 20:21:09
Job time : 369.698 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:50:21 ; Search time 309.514 Seconds
(without alignments)
5092.624 Million cell updates/sec

Title: US-09-883-839-1-A386
Perfect score: 2162
Sequence: 1 ggaattccgctataggcag.....gtggtttgtcttcggaattc 2162

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues

Total number of hits satisfying chosen parameters: 9275266

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New:
1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB_seq.*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB_seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB_seq.*
4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB_seq.*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB_seq.*
6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB_seq.*
7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB_seq.*
8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB_seq.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB_seq.*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB_seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2158.4	99.8	2162	7 US-11-127-877-18	Sequence 18, Appl
2	453	21.0	1423	7 US-11-136-527-2066	Sequence 2066, Ap
3	362.6	16.8	2955	7 US-11-136-527-2954	Sequence 2954, Ap
4	233	10.8	8372	7 US-11-136-527-684	Sequence 684, App
5	197.8	9.1	2116	7 US-11-136-527-3819	Sequence 3819, Ap
6	194.6	9.0	1685	6 US-10-750-185-36071	Sequence 36071, A
7	194.6	9.0	1685	6 US-10-750-623-36071	Sequence 36071, A
8	187.6	8.7	1238	6 US-10-995-561-321	Sequence 321, App
9	187.6	8.7	1498	6 US-10-995-561-13298	Sequence 320, App
10	187.6	8.7	86131	6 US-10-995-561-13298	Sequence 13298, A
11	177	8.2	3635	7 US-11-136-527-2101	Sequence 2101, Ap
12	172.6	8.0	1384	7 US-11-136-527-2159	Sequence 2159, Ap
13	158.8	7.3	1865	6 US-10-533-355-9	Sequence 3742, Ap
14	158.8	7.3	1865	6 US-10-533-355-9	Sequence 9, Appli
15	151.8	7.0	856	6 US-10-750-185-62128	Sequence 62128, A
16	151.8	7.0	856	6 US-10-750-623-62128	Sequence 62128, A
17	141.4	6.5	1224	6 US-10-750-185-40492	Sequence 40492, A
18	141.4	6.5	1224	6 US-10-750-623-40492	Sequence 40492, A
19	125.6	5.8	600	7 US-11-136-527-6162	Sequence 6162, Ap
20	112.4	5.2	3985	7 US-11-136-527-3404	Sequence 3404, Ap
21	93.4	4.3	3219	7 US-11-136-527-4059	Sequence 4059, Ap
22	93.4	4.3	3295	7 US-11-136-527-3736	Sequence 3736, Ap
23	92.6	4.3	706	6 US-10-750-185-32790	Sequence 32790, A

Sequence 32790, A
Sequence 3841, Ap
Sequence 4061, Ap
Sequence 3525, Ap
Sequence 3, Appli
Sequence 27, Appl
Sequence 3805, Ap
Sequence 9095, Ap
Sequence 9109, Ap
Sequence 48688, A
Sequence 3843, Ap
Sequence 20212, A
Sequence 20212, A
Sequence 50101, A
Sequence 50101, A
Sequence 2638, Ap
Sequence 1, Appli
Sequence 28, Appl
Sequence 196, App
Sequence 199, App
Sequence 197, App
Sequence 195, App

ALIGNMENTS

RESULT 1

US-11-127-877-18
; Sequence 18, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Merck, Pascal G.
; APPLICANT: Hoffmann, Marcel
; APPLICANT: Spittaels, Koenraad F. F.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting Amyloid-Beta Protein Production
; TITLE OF INVENTION: Amyloid-Beta Protein Production
; FILE REFERENCE: P27 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 18
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: n is a, c, g, or t
US-11-127-877-18

Query Match 99.8%; Score 2158.4; DB 7; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAGGAGGATGTCTAGCTCGGTCCCTCCGCTCGA 60
Db 1 GGAATTCGGCTATAGGCAGGAGGATGTCTAGCTCGGTCCCTCCGCTCGA 60
Qy 61 CGCTCCTCTGTCTAGCCAGGACTGGTTCTTAAGAAACACAGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTGTCTAGCCAGGACTGGTTCTTAAGAAACACAGAGCTGTGGCAGC 120

QY 121 GCGAAGGAGCGGCTGAGGCGCTTGGAAACCGAAAAAGTCTCGTGCTCTCGGTACCT 180
DB 121 GCGAAGGAGCGGCTGAGGCGCTTGGAAACCGAAAAAGTCTCGTGCTCTCGGTACCT 180
QY 181 CGCACAGCGGTGCCCGCGCGCGTCACTGATGAGCAGCAGCGTGCCTCCACGAAAG 240
DB 181 CGCACAGCGGTGCCCGCGCGCGTCACTGATGAGCAGCAGCGTGCCTCCACGAAAG 240
QY 241 CACGAAATGCACTGATGCTTGGCGTACTCAAGTTGCTTCCAGACCCAGCGCCCGGTT 300
DB 241 CACGAAATGCACTGATGCTTGGCGTACTCAAGTTGCTTCCAGACCCAGCGCCCGGTT 300
QY 301 CTGGGTCAACTGTCCTTCTAGATGGCAACTGTCGACCCATGCGGTCCGAAACCGCA 360
DB 301 CTGGGTCAACTGTCCTTCTAGATGGCAACTGTCGACCCATGCGGTCCGAAACCGCA 360
QY 361 CAAACCTGGCGGAGAGACAGCCTATGCCCCCTCCGACCGGCACTCCCTCATGATCAAG 420
DB 361 CAAACCTGGCGGAGAGACAGCCTATGCCCCCTCCGACCGGCACTCCCTCATGATCAAG 420
QY 421 CACATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCCGAAACTTCC 480
DB 421 CACATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCCGAAACTTCC 480
QY 481 TGGTCATGATGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTCATTT 540
DB 481 TGGTCATGATGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTCATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACACAGTACCTCGCCCTTCCAGAGTGTGAAT 600
DB 541 TCAACCTTGTCTGGCAGATGCTTAGCCACACAGTACCTCGCCCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGAAACATGGCCATTTGGAAACCATCTTTGGCAAGATGATCTCCATAGATT 660
DB 601 ACCTAATGGAAACATGGCCATTTGGAAACCATCTTTGGCAAGATGATCTCCATAGATT 660
QY 661 ACTATAACATGTTTACCAGCATATTCACCTCTGACACCATGATGTTGATCGATCATTTG 720
DB 661 ACTATAACATGTTTACCAGCATATTCACCTCTGACACCATGATGTTGATCGATCATTTG 720
QY 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA 780
DB 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA 780
QY 781 ATGCTGCAACTGGATCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
DB 781 ATGCTGCAACTGGATCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACT 900
DB 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACT 900
QY 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAATATGCCAGTCTCATCA 960
DB 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAATATGCCAGTCTCATCA 960
QY 961 TTACCGTGTCTATGACATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCGGCT 1020
DB 961 TTACCGTGTCTATGACATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTTCGAAAGGATCACAGGATGGTGGTGGTGGCTG 1080
DB 1021 CCAAGAAAGGACAGGAATCTTTCGAAAGGATCACAGGATGGTGGTGGTGGCTG 1080
QY 1081 TGTTCATCGTCTCTGGACTCCCATTACATTTTACGTCATCAATTAAGCCTTGGTTACAA 1140
DB 1081 TGTTCATCGTCTCTGGACTCCCATTACATTTTACGTCATCAATTAAGCCTTGGTTACAA 1140
QY 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACAA 1200
DB 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACTTTCAAACGATGCTTCA 1260

DB 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACTTTCAAACGATGCTTCA 1260
QY 1261 GAGAGTCTGTATTCCTCCAACTCTTCCAACTGAGCAACAAACTCCCACTCGAATTCGTC 1320
DB 1261 GAGAGTCTGTATTCCTCCAACTCTTCCAACTGAGCAACAAACTCCCACTCGAATTCGTC 1320
QY 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
DB 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
QY 1381 AAAATCTCGAAGCAGAAACTGCTCCGTTGCCCCCTAAACAGGGTCTCATGCCATTTCCGACCTT 1440
DB 1381 AAAATCTCGAAGCAGAAACTGCTCCGTTGCCCCCTAAACAGGGTCTCATGCCATTTCCGACCTT 1440
QY 1441 CACCAAGCTTTAGAACCCCACTGATGTTGGAAGCAGGTGCTTCAAGAAATGTTAGGAGG 1500
DB 1441 CACCAAGCTTTAGAACCCCACTGATGTTGGAAGCAGGTGCTTCAAGAAATGTTAGGAGG 1500
QY 1501 CTCTAACTCTTAGGAAAGTGCCTACTTTTAGGTCTATCCAACTCTTCTCTCTGGCCA 1560
DB 1501 CTCTAACTCTTAGGAAAGTGCCTACTTTTAGGTCTATCCAACTCTTCTCTCTGGCCA 1560
QY 1561 CTCTGCTCTGCACTTTAGAGGACAGCCAAAGTAGTGGAGCTTTGGAAGGAAAGGAA 1620
DB 1561 CTCTGCTCTGCACTTTAGAGGACAGCCAAAGTAGTGGAGCTTTGGAAGGAAAGGAA 1620
QY 1621 TATACACACCGAGAGTCCAGTTGTTGCAAGACACCCAGTGGAAACCAACCCATCTGTG 1680
DB 1621 TATACACACCGAGAGTCCAGTTGTTGCAAGACACCCAGTGGAAACCAACCCATCTGTG 1680
QY 1681 GTATGTAATTTGAAGTCACTATAAAGGTGACCCCTCTGTCTGTAGATTTTATTTTCAA 1740
DB 1681 GTATGTAATTTGAAGTCACTATAAAGGTGACCCCTCTGTCTGTAGATTTTATTTTCAA 1740
QY 1741 GCAATAATTTATGACCTCAACAAAGAAAGCCATCTTTGTTTAAAGTTCACCGTAGTAAACA 1800
DB 1741 GCAATAATTTATGACCTCAACAAAGAAAGCCATCTTTGTTTAAAGTTCACCGTAGTAAACA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCCTTGAATGGAGSTCCGAGTCTTTTAG 1860
DB 1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCCTTGAATGGAGSTCCGAGTCTTTTAG 1860
QY 1861 TGTTTTTCAAGGGAAATGAATCCATTTATTTTAACTTTTAACTTTCAACTTTAAAT 1920
DB 1861 TGTTTTTCAAGGGAAATGAATCCATTTATTTTAACTTTTAACTTTCAACTTTAAAT 1920
QY 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATTTGTTTAAAAA 1980
DB 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATTTGTTTAAAAA 1980
QY 1981 AATAACATCTCTTTTCACTAGCTCCATTAATTCGAAGGAGAGATTAGCATGAAAGGTAA 2040
DB 1981 AATAACATCTCTTTTCACTAGCTCCATTAATTCGAAGGAGAGATTAGCATGAAAGGTAA 2040
QY 2041 TCTGAAACACAGTCACTGTGCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACATT 2100
DB 2041 TCTGAAACACAGTCACTGTGCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACATT 2100
QY 2101 CCAAGAGTCACTATGAGGAGATTTTTCATTTCTTAGGCTTTTCACTGTTGTTTCTTGGAAAT 2160
DB 2101 CCAAGAGTCACTATGAGGAGATTTTTCATTTCTTAGGCTTTTCACTGTTGTTTCTTGGAAAT 2160
QY 2161 TC 2162
DB 2161 TC 2162

RESULT 2

US-11-136-527-2066
; Sequence 2066, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:

APPLICANT: Wyeth
APPLICANT: Mounts, William M
TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
FILE REFERENCE: 031896-041000 (AM101086)
CURRENT APPLICATION NUMBER: US/11/136,527
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 60/574,294
PRIOR FILING DATE: 2005-05-26
NUMBER OF SEQ ID NOS: 362830
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2066
LENGTH: 1423
TYPE: DNA
ORGANISM: Rattus norvegicus
US-11-136-527-2066

Query Match 21.0%; Score 453; DB 7; Length 1423;
Best Local Similarity 68.9%; Pred. No. 3.3e-128;
Matches 637; Conservative 0; Mismatches 285; Indels 3; Gaps 1;

Qy 406 CTTCCATGATCAGCGCCATCAGATCATGCGCCCTTACTCATCGTGTGGTGGGGC 465
Db 236 CGTCCCTGGCTCTGGCCATCCCATCCCGCGCTTACTCGGCTGTGTGGCGGTGGGC 295
Qy 466 TCTTCGGAACCTTCTGTCTATGTATGTGTGATGTGATGTCAGATACCAAGATGAAGACTGCCA 525
Db 296 TGTGGGGAAGCTGTCTGTATGTTGGATCGTCCGTACACTTAAGCTGAAGACGGCCA 355
Qy 526 CCAACATCTACATTTTCAACCTTCTCTGGCAGATGCTTAGCCACAGTACCCCTGCCCT 585
Db 356 CCAACATCTACATCTTCAATCTGCGCTTGGCGGATGCGTGGCCACCAAGACACTGCGCT 415
Qy 586 TCCAGAGTGAATTAATCTAATGGGAATGCGCCATTTGGNACCATCTTTGCAAGATAG 645
Db 416 TCCAGAGCGCAAGTACCTGATGAAAGCGTGGCGGTTTCGGAGAGCTGCTGTGAAGCTG 475
Qy 646 TGATCTCATAGATTACTATAACATGTTACACAGATATTCACCTCTGCACCATGAGTG 705
Db 476 TGCTTCTCATGACTACTAACAATGTTACAGACATCTTACGCTCACCATGATGAGCG 535
Qy 706 TTGATCGATACATTTGCAAGTGTGCCACCTGTCAAGGCTTAGATTTTCCGTACTCCCGAA 765
Db 536 TGGACCGCTACATTTGGCTGTCCACCTGTCAAGGCTTGGACTTTCGGACACCGGCCA 595
Qy 766 ATGCCAAATTAATCAATGTGTGAACTGTGATCTCTTACGACCATGGTCTTCTGTAA 825
Db 596 AGGCCAAGCTGATCAACATATGCTATCTGGCTTGGCTTCAAGGTGTTGGGTCCCGATCA 655
Qy 826 TGTTCATGGCTACACAAATACAGGCAAGGTTCATAGATTGTACACTAACATTTCTTC 885
Db 656 TGGTCATGGCAGTGACCAACCCCGGATGGAGCAGTGATGACCGTCCAGTTCCGCA 715
Qy 886 ATCCAACTGTCTACTGGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCATTA 945
Db 716 GCCCCAGCTGTACTGGGACACTGTGACCAAGATCTGGCTGTCTCTTGGCTTCTGG 775
Qy 946 TGCAGTGTCTCATATTAACGTGTGTATGACATGATCTTGGGCTCAAGAGTGTCC 1005
Db 776 TGCCCATTTCTCATCATACCGTGTGTATGCGCTCATGCTGCTGCGCTGCGCAGCGTGC 835
Qy 1006 GCATGCTCTCTGGCTCCAAAGAAAGGACAGGATCTTCGAAGGATCACAGGATGGTGC 1065
Db 836 GCCTGTCTCTGGCTCCAAAGAAAGGACCGGCTTCGGCGGATACCGGCAATGGTGC 895
Qy 1066 TGGTGGTGGTGGCTGTGTTCATCTGCTGTGACTTCCCATTTACATTTACGTCATCATTA 1125
Db 896 TGGTGGTGGTGGAGCTTCTGTGTGTCTGGGCGCCATCCACATCTTGTGTCTGTCT 955
Qy 1126 AAGCCTTGGTGTACATC---CCAGAAACTAGTTCAGACTGTGTTTCTGGCACTTCTGCA 1182
Db 956 GGACGCTGGTGGACATCAATCGGCGGACCCCACTTGTGTGGTGGCGCGCTGCACTTGTGCA 1015
Qy 1183 TTGCTCTAGGTATACAAACAGCTGCTCAACCCAGTCTTTATGCACTTTCTGGATGAA 1242

Db 1016 TTGCGCTGGGCTACGCAACAGCAGCCTCAACCCGGTTCTCTACGGCTTCTCTGGACGAGA 1075
Qy 1243 ACTTCAAAAGATGCTTTCAGAGAGTCTGTATCCAAACCTTCTTCCAAATTTGAGCAACAA 1302
Db 1076 ACTTCAAGCGCTGCTTCCGCGAGCTCTGTGCGGCGCTTGTGCGGCGCAAGACCCGCA 1135
Qy 1303 ACTTCACTCGAATTCGTGAGAACAC 1327
Db 1136 GCCTCGCGCTCCCGCCAGGCCAC 1160

RESULT 3
US-11-136-527-2954
; Sequence 2954, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2954
; LENGTH: 2955
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2954

Query Match 16.8%; Score 362.6; DB 7; Length 2955;
Best Local Similarity 62.6%; Pred. No. 3.2e-100;
Matches 560; Conservative 3; Mismatches 332; Indels 0; Gaps 0;

Qy 424 TCACGATCATGGGCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACTTCCTGG 483
Db 329 TCACCATCGTGGGCTCTACTTGGCTGTGTGCATCGGGGGCTCTCTGGGAACTGCTCG 388
Qy 484 TCATGTATGTATGTGTGATGATACCAAGATGAAGATGCCACCAATCTACATTTTCA 543
Db 389 TCATGTATGTATCTCTCAGGACACCAAGATGAAGACAGCTACCAACATTTACATATTA 448
Qy 544 ACCTTGTCTGTGGAGTGCCTTAGCCACAGTACCTTCCAGAGTGTGAATACC 603
Db 449 ATCTGGCACCTGGCTGATACCTTGTCTTAACACTGCCCTTCCAGGSGACACATCC 508
Qy 604 TAATGGGAACATGGCCATTTTGGAAACCATCTTTTGAAGATGTGATCTCCATAGATTACT 663
Db 509 TACTGGGCTTCTGGCCATTTTGGGATGCACTCTGCAAGACTGTCTATTCGCTATCGACTACT 568
Qy 664 ATAACATGTTTCAACAGATATTCACCTCTGACCATGATGTGTGTGATGATGATGCGAG 723
Db 569 ACAAATGTTTACAGCACTTTTACTCTGACCGCCATGAGCGTATGATGCGCTA 628
Qy 724 TCTGCCACCTGTCAAGGCTTAGATTTCCGTTACTCCCGAAATGCCAAATTTATCAATG 783
Db 629 TCTGCCACCTTATCCGTCGCTTGTATGTTTGGACATCCAGCAAGCCAGGCTGTTAATG 688
Qy 784 TCTGCAACTGGATCTCTCTTTCAGCCATTTGTCTTCTGTAAATGTTTATGCTGCTACAA 843
Db 689 TGGCCATATGGGCTTGGCTTCACTGCTGTGTGTCTGTGTGCTATCATGCTTTCAGCAC 748
Qy 844 AATAACAGCAAGGTTCCATAGATGTACATAACATTTCTCTCATCTCAACCTGGTACTGGG 903
Db 749 AAGTGGAAAGATGAAGATCGAGTGCCTGTGGAGATCCCTGCGCCCTCAGGACTATTGGG 808
Qy 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATCTATGCGAGTGTCTCATTA 963
Db 809 GCCCTGTATTGGCCATCTGCACTCTCTCTTTTCTCTTCATCATCTCTGTSSTGATCATCT 868

```
QY 964 CCGTGTGCTAGTACATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 869 CTGTCTGTACAGCCCTCATGATTCGACGACTTCGTGTGTCCGTCTGCTTTCAGGCTCCC 928
QY 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGTGTGGTGTGT 1083
Db 929 GGGAGAAGGACCGAAACCTCGCGGATACCTCGACTGGTGTGTGTGTGTGTGTGTGT 988
QY 1084 TCATCTGTCTGTGGACTCCCATTTCAATTTACATTTAGCTATCAATTAAGGCTTGGTTACATCC 1143
Db 989 TTGTGGGCTGTGTGGAGCGCTGTGAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1048
QY 1144 CAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATCTGTAGCTTACACAAACA 1203
Db 1049 CAGGTAGTGAGACTGCAGTTGCCATCTCGCGCTTCTGCAAGCGCTTGGGCTATGTCAACA 1108
QY 1204 GCTGCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAATCTTCAAAACGATGCTTCAGAG 1263
Db 1109 GTTGTCTCAATCCATCTCTATGCTTCTCTGATGAGAACTTCAAGGCTGCTTTAGAA 1168
QY 1264 AGTTCTGTATCCCAACCTCTTCCAAATTTGAGCAACAAATCCCACTCGAATTCG 1318
Db 1169 AGTTCTGTGTGCTTTCATCCCTGCAACCGGAGATGAGGTTTCTGATCGTGTGCG 1223

RESULT 4
US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-684

Query Match 10.8%; Score 233; DB 7; Length 8372;
Best Local Similarity 56.4%; Pred. No. 4.3e-60;
Matches 513; Conservative 0; Mismatches 315; Indels 81; Gaps 1;

QY 491 TGTGATTTGATACACCAAGATGAAGACTGCGCCACCACTACATTTTCAACTTGC 550
Db 5100 TGTCTCTACAGGCACACCAAGATGAAGACAGCTACCAACATTTTACATATTTAATCTGCG 5159
QY 551 TCTGGCAGATGCTTAGCCACCAGTACCTTCCCTTCCAGAGTGTGAATTAATCTG 610
Db 5160 ACTGGCTGATACCTGCTGTGTGTAACACTGCGCTTCCAGGGCACAGACATCTACTGGG 5219
QY 611 AACATGGCATTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATTACTATAACAT 670
Db 5220 CTCTGGCCATTTGGGAATGCACTCTGCAAGACTGTCTATGCTATCGACTACTACACAT 5279
QY 671 GTTACACAGATATTCACCTCTGCAACCATAGTGTGTGATCGATACATTTGCAAGTTCGCA 730
Db 5280 GTTATACAGCACTTTTACTCTGACCGCCATGAGCGTAGACCGCTATGTGGCTATCTGCCA 5339
QY 731 CCTGTCAAGGCTTAGATTTCCGTACTCCCGAATGCCAAATTTATCAATGTCTGCAA 790
Db 5340 CCTATCCGTGCTTGTATGTTTCGGACATCCAGAAAGCCCGAGGCTGTAAATGTGGCCAT 5399
QY 791 CTGGATCTCTCTTACAGCAATTTGCTCTCTGTAATGTTTCATGGCTTACAAACAAA----- 845
Db 5400 ATGGGCTGCTTCAAGTGTGTGTTCTGTGTCATCATCTGGGTTTCAGCAAGTGA 5459
```

```
QY 846 ----- 845
Db 5460 AGATGAAGGTCAAGTGGGTGCTCTCTCCCTGACTCATTTAGTTTCCCATGGTCTTGTGCTG 5519
QY 846 -----TACAGGCAAGGTTTCCATAGATTGTACACATAACATTTCTCTCATCC 889
Db 5520 GTCCCTCTGACCCCATTTCTCTCTGACAGATCGAGTGCCTGGTGGAGATCCCTGCCCC 5579
QY 880 AACCTGGTACTGGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTAATGCC 949
Db 5580 TCAGCACTATTGGGGCCCTGTATTCCCATCTGCATCTCTCTTTTCTCTTCATCATCC 5639
QY 950 AGTGTCTCATATTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGAT 1009
Db 5640 TGTGCTGATCATCTCTGTCTGCTCAGGCTCATGATTCGACACTTCGTGGTGTCCGCTCT 5699
QY 1010 GCTCTCTGGCTCAAAAGAAAGGACAGGAATCTTCGAAGGATCACACAGGATGGTGTGCT 1069
Db 5700 GCTTTCAGGCTCCCGGAGAGGACCGAAACCTGCGGCTATCATCTCGACTGTGTGCTGT 5759
QY 1070 GGTGTGTGCTGTGTTTCATGCTGTGCACTCCCATTTCAATTTACGTTACATTTAAAGC 1129
Db 5760 AGTGTGTGCTGTGTTTGTGGGCTGCTGACGCTGTGCAAGTGTGTTGTCTGCTGTTCAAG 5819
QY 1130 CTTGGTTACAATCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCT 1189
Db 5820 ACTGGGTGTTCAGCCAGGTAGTGAGACTGCACTGTCAGTTCCTGCGCTTCTGCACAGCCCT 5879
QY 1190 AGGTTACACAAACAGCTGCTCAACCCAGTCTCTTATGCAATTTCTGGATGAAATCTCAA 1249
Db 5880 GGGCTATGTCAACAGTTGTCTCAATCCCATCTCTATGCTTCTCTGGATGAGAACTCAA 5939
QY 1250 AGGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAACTGAGCAACAACTCCAC 1309
Db 5940 GGCCTGCTTTAGAAAGTTCTGCTGTCTTCACTCCCTGCAACGGGAGATGCAAGTTTCTGA 5999
QY 1310 TCGAATTCG 1318
Db 6000 TCGTGTGCG 6008

RESULT 5
US-11-136-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3819

Query Match 9.1%; Score 197.8; DB 7; Length 2116;
Best Local Similarity 53.2%; Pred. No. 9.7e-50;
Matches 443; Conservative 0; Mismatches 387; Indels 3; Gaps 1;

QY 430 TCATGGCCTCTACTTCCATCGTGTGGGTGCTCTTCGGAACCTTCCTGGTCACTG 489
Db 504 TCACGTTTCTACTTCTGTTGCTGCGTGGGTGCTGCGGCAACACGCTCGTCACT 563
QY 490 ATGTGATTTGATACATACACCAAGATGAAGACTGCCCAACATCTACATTTTCAACCTTG 549
```

Db 564 ACCTCATCTCCGCTAGCCCAAGATGAAACCAATCACCAACATTTACATCTCTCAACCTGG 623
Qy 550 CTCTGGCAGATGCTTAGCCACCAAGTACCTGCTGCCCTTCCAGAGTGTGAATTAACCTATGG 609
Db 624 CCATCGCAGATGAATCTTTCATGCTGGGCTGCCCTTCTTGGCCATGACGGTGGCGCTGG 683
Qy 610 GAACATGGCCATTTGGCAACCATCTTTGCAAGATAGTATCTCCATAGATTAATTAACA 669
Db 684 TCCACTGGCCCTTTGGCAAGCCCATCTGCGGGTGGTATGACTGTGTGACGGTATCAACC 743
Qy 670 TGTTCACAGCATATTCACCTCTGCACATGAGTGTGATGCAATTCAGTCTGCC 729
Db 744 AGTTACACAGTATCTTCTGCTTACGGTTCATGAGCATCGACCGTTACTCTGGCCGTGGTCC 803
Qy 730 ACCCTGTCAAGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTAATCAATGCTGTGCA 789
Db 804 ACCCCATTAAGTCAGCCAAATGAGGCGACCCCGGACAGCCAAAGATGATCAACGTGGCTG 863
Qy 790 ACTGGATCTCTCTTCAGCCATTTGCTTCTCTGTAATGTTTCATGGCT---ACAAACAAAT 846
Db 864 TGTGGGTGTGCTCCCTGCTGTCATTTTGGCCATCATGATATACGCTGGCCCTCCGGAGCA 923
Qy 847 ACAGGCAAGGTTCCATAGATTTGACACTAAATCTCTCATFCCAACCTGTGCTACCTGGAAA 906
Db 924 ACCAGTGGGTAGGACGAGCTGCACCATCAACTGGCCGGGGAATCCGGGGCATGGTACA 983
Qy 907 ACCTGTGAAGATCTGTGTTTTCATCTTCGCTTCATTAATGCCAGTGTCTCATATTACCG 966
Db 984 CGGGTTTCATTATCTATGCCCTTCTCTGGGGTTCCTGGTACCCCTTAACCATCATCTGTC 1043
Qy 967 TGTGCTATGGAATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 1026
Db 1044 TCTGTACTCTTTCATCATCATCAAGGTGAAGTCTCTGGGATCCGAGTGGGGTCTGCCA 1103
Qy 1027 AAAAGGACAGGAATCTTCGAAGGATCACAGAGTGTGCTGGTGGTGGTGTGTTTCA 1086
Db 1104 AGAGAAAGTCAAGAAAGGTGACCCGAATGGTATCATCGTGGTGGTGTCTTCA 1163
Qy 1087 TCGTCTGTGGACTCCCAATTCACATTTACGTATCATTAAGCCCTTGGTTACAATCCAG 1146
Db 1164 TCTTCTGTGCTGCCCTTCTATATCTTCAATGCTCTGCTGGTGTCTGGCCATCAGCC 1223
Qy 1147 AAATACGCTTCAGACTGTTTCTGGCACTTCTGATTTGCTTAGTTTACACAAACAGCT 1206
Db 1224 CCACCCCTCGCCGTAAGGCGATGTTGACTTTGTGGTTTATCTCTACCTACGCCAACAGCT 1283
Qy 1207 GCCTCAACCCAGTCTTTATGATTTCTGGATGAAACTTCAAACGATGCTTC 1259
Db 1284 GGGCCAAACCCATCTGTACGCCCTTCTTGTCCGACAACTTCAAGNAGAGCTTC 1336

RESULT 6

US-10-750-185-36071/c
; Sequence 36071, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERP, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 36071
; LENGTH: 1685

; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-185-36071
Query Match 9.0%; Score 194.6; DB 6; Length 1685;
Best Local Similarity 51.4%; Pred. No. 7.9e-49; Indels 16; Gaps 3;
Matches 534; Conservative 0; Mismatches 489;
Qy 225 GCTGCCCCACGAAACGCCAGCAATTCACATGATGCTTGGCGTACTCAAGTTGCTGCC-C 283
Db 1537 GCAGCCCCACCGCCGCCCATCAGCTGAGATGTTCCCAATGAGCGCCCTCTCTCCCTC 1478
Qy 284 AGCACCCAGCCCGGTTCTGGGTCAACTTGTGCCCATTTAGATGGCAACTGTGCGACCC 343
Db 1477 CTCTCTAGCCCGCAGCCAGCGAGCTGCGGCGAAGCGCGGCGAGCAGAGGGGCCCCGGGC 1418
Qy 344 ATGGGTCCGAAACCGACCAACCTGGGCGGAGAGACAGCTATGCCCCTCCGACCGGCGAG 403
Db 1417 CGGCGCTGCGAGACGGGATGGAAGAACCGGGGGCGAAACGCGTCCAGAACGGGACCTTGAG 1358
Qy 404 TCCCTCCATGATCACGGCCATCAGATCATGGCCCTCTACTCCATCGTGTGCTGGTGGG 463
Db 1357 CGAGGGCCAGGCGAGCTATCTCATCTCTTTCATCTACTCCGTGGTGTGCTGGTGGG 1298
Qy 464 GCTCTTCGGAACCTTCTCGTTCATGATGATGATGATGATGATGATGATGATGATGATGATG 523
Db 1297 GCTCTGTGGAACTCCATGCTGATCTACGTGATCTCTCGGTGATCGCAAGATGAAGACGC 1238
Qy 524 CACCAACATCTAATTTTCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCCCTGCC 583
Db 1237 CACCAACATCTAATCTCAACCTTGGCCATCGCGATGAGCTGCTCATGCTCAGCGTGCC 1178
Qy 584 CTTCAGAGTGTGAATTTACCTAATGGGAACATGSCCATTTGGAAACCATCTCTTTCAGAGAT 643
Db 1177 CTTCCTGGTCACTTCCATGATTTACATATTAACATGTTTACCAGCATATTCACCTCTGACCATAG 703
Qy 644 AGTGATCTCCATAGATTTACTATAACATGTTTACCAGCATATTCACCTCTGACCATAG 703
Db 1117 CGTGCTCAGCGTGGACGAGTCAACATGTTTACCAGCATCTACTGTCTGACTGTGCTTAG 1058
Qy 704 TGTGTGATGATATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 763
Db 1057 CGTGACCGCTACGTGCGCGTGGTGCACCCCATCAAGGCCGCGACGCTACCGCCGCGCCAC 998
Qy 764 AAATGCCAAATTTATCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 820
Db 997 CGTGCCCAAGGTGGTGAATCTGGCGCTGTGGGTGCTGTGGTGTGCTGTGCTGTGCTGTGCTGT 938
Qy 821 TGTAAATGTTATGGCTACAAACAAATACAGCAAGGTTTCCATAGATTTGTACACTAAACAT 880
Db 937 CGTGGTCTTCTCGCGCACGGGCGCAACAGCGACGGCGCGTGGCTGCAACATGCTCAT 878
Qy 881 CTCTCATCCAAACCTGGTACTGGGAAAACCTCGTGGAAGATCTGTGTTTTCATCTTGCCTT 940
Db 877 GCCCGAGCCCGCCAGCGCTGGCTGGTGGGCTTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 818
Qy 941 CATTTATGCCAGTGTCTCATATTACGGTGTGCTATGGAAGTGTGCTGCTGCTGCTGCTGCTGCT 1000
Db 817 CTTGCTGCCCGTCCGGGCGCATCTGCTTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 758
Qy 1001 TGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATCACAGGAT 1060
Db 757 GGTGGCCCTCAAGCCCGGCTGGGAGCGAGCGCAAGCGCTCGAGCGCAAGATCACCTGAT 698
Qy 1061 GGTGCTGG 1120
Db 697 GGTGAT 638
Qy 1121 CATTAAGCCCTTGGTTACAATCCAGAACTACGTTCCAGACTGTTTCTTCCGCACTTCTG 1180
Db 637 AGTCAACGTTGTCGGGAGCAGGACGCGCCAGCGTGA-----GCCAGCTGTC 590
Qy 1181 CATTGCTCTAGTTTACAAACAGCTGCTCAACCCAGTCTCTTATGATTTTCTGGATGA 1240

Db 589 GGTCTCCTCGGTACCGCAACAGCTGCGCCACCCCTCTACGGCTTCTTTTCAGA 530
QY 1241 AAATTTCAAAACGATGTTTC 1259
Db 529 CAACTTCAAGCGCTCTTTC 511

RESULT 7

US-10-750-623-36071/c
; Sequence 36071, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36071
; LENGTH: 1685
; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-623-36071

Query Match 9.0%; Score 194.6; DB 6; Length 1685;
Best Local Similarity 51.4%; Pred. No. 7.9e-49;
Matches 534; Conservative 0; Mismatches 489; Indels 16; Gaps 3;
QY 225 GCTGCCCCCAGCAACCGCCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCC-C 283
Db 1537 GCAGCCCCCAGCGCCCCCATCAGCTGAGATGTTCCCAATGGCAGCGCTCTCTCCCTC 1478
QY 284 AGCACCAGCCCGGTTCTGGGTCAACTGTGCCACTTAGTGGAACCTGTGCCACCC 343
Db 1477 CTCTCTAGCCCCCAGCCCGCAGGAGCTGCGCGAAGCGCGGAGCAGGGGCCCCGGGC 1418
QY 344 ATCGGCTCCGAACCGCCACCAACCTGGCGGGGAGAGACAGCTATGCCCTCCGACCGGAG 403
Db 1417 CGCGCTGCAGCGGATGGAGAACCGGGGCGAAGCGGTCCAGAACGGGACCTTGAG 1358
QY 404 TCCCTCCATGATCACGGCCATCAGATCATGCGCCCTCTACTCCATCGTGTGGGTGGG 463
Db 1357 CGAGGGCCAGGGCAGCGCTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1298
QY 464 GCTCTTCGGAACCTTCTGGTCACTATGTGATGTGCAGATACACCAAGATGAAGCTGC 523
Db 1297 GCTCTTGGGAACCTCCATGGTCACTACGCTGATCTCTGCGCTAGCCCAAGATGAAGCGC 1238
QY 524 CACCAACATCTACATTTTCAACCTTCTCTGGCAGATGCTTGGCAGATGCTTACCCACCTGCC 583
Db 1237 CACCAACATCTACATCTTCAACCTTGGCCATCGCCGATGAGTCTCATGCTCAGCGTGC 1178
QY 584 CTTTCCAGAGTGTGAATTAACCTAAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGAT 643
Db 1177 CTTTCTGGTCACTCCACATTTGCTTCCCACTGGCCCTTGGCGCGCTACTCTGCGCGCT 1118
QY 644 AGTGATCTCCATAGATTACTATAACATGTTCACGACATATTCACCTCTGACCATGAG 703
Db 1117 CGTGCTCAGCGTGGAGCGAGTCAACATGTTTCAACGACATCTACTGTGACTGTGCTTAG 1058
QY 704 TGTGTGATGATATGTCAGTCTGCCACCTGTGCAAGGCTTGAATTCGCTACTCCCCG 763
Db 1057 CGTGGACCGCTACTGGCGGTGTGTGACCCCATCAAGGCGGACGCTACCGCGGGCCAC 998

QY 764 AAATGCCAAATATTCAATGTCTGCAACTGGATCTCTCTTTCAGCCATTTGGTCTTCC--- 820
Db 997 CGTGCCCAAGGTGTGTAATCTGGGCGTGTGGTGTCTGCTGCTGCTGCTGCTGCTGCTGCT 938
QY 821 TGTAAATGTTTCATGGCTACAAACAAATACAGCAAGGTTCCATAGATTGTACACTAACATT 880
Db 937 CGTGTCTTCTCGCGCACCGGGGCCAACAGCGACGCGGTGGCTGCAACATGCTCAT 878
QY 881 CTCTCATCCAACTGTTACTGGAACAACTCGTGAAGATCTGTGTTTTCATCTTTCGCTT 940
Db 877 GCCCGAGCCCGCCAGCGCTGGCTGGTGGCTTCTGTGTGTACATCTTCTCATGGGCTT 818
QY 941 CATTATGCCAGTCTCATCATTTACCGTGTGCTATGACCTGATGATCTTTCGGCTCAAGAG 1000
Db 817 CCGTCTGCCCGTCCGGGCACTCTGTTGTCTGCTGCTCATCATGCGCAAAATGGCAT 758
QY 1001 TGTCCGATGCTCTCTGCTCCAAAGAAAGGACAGGAATTTTCAAGGATCACCGAT 1060
Db 757 GGTGCCCTCAAGCGCGCTGSCAGCAGCGCAAGCGCTCGGAGCGCAAGATCACCTGAT 698
QY 1061 GGTGCTGGTGGTGGCTGTGTTTCATGCTGCTGGACTCCCATTCACATTTACGTCAT 1120
Db 697 GGTGATGATGGTGGTGGTGTGTTTCATCTGCTGGATGCTTCTATGTGTGCGAGCT 638
QY 1121 CATTAAAGCCTTGGTTACAATCCCAAGAACTACGTTTCCAGACTGTTTCTTGGCACTTCTG 1180
Db 637 AGTCAACGTGTTCCGGGAGCAGGACGCGCACGCTGTA-----GCCAGCTGTC 590
QY 1181 CATTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCTTTTATGCAATTTCTGATGA 1240
Db 589 GGTCTCTCGTTAGCCCAACAGCTGCGCAACCCCTCTCTAGGCTTCTTTCAGA 530
QY 1241 AAATTTCAAAACGATGCTTC 1259
Db 529 CAACTTCAAGCGCTCTTTC 511

RESULT 8

US-10-995-561-321
; Sequence 321, Application US/10995561
; Publication No. US2005027054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 321
; LENGTH: 1238
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-321

Query Match 8.7%; Score 187.6; DB 6; Length 1238;
Best Local Similarity 51.9%; Pred. No. 8.8e-47;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;
QY 424 TCACGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGAAATTCCTCG 483
Db 214 TCGCTATCCAGTGCATCTACGCGCTGGTGTGCTGGTGGGCTGGTGGGCTGG 273
QY 484 TCATGTATGTGATTGTCAGATACACAGATCAAGACTGCCACCAACATCTACATTTCA 543
Db 274 TCATCTTGTGTATCTCTTCCTAGCCAGATGAAGACGGCTACCAACATCTACCTGCTCA 333
QY 544 ACCTTGCTCTGGCAGATGCTTTAGCCACCAAGTACCTGCGCTTCCAGAGTGAATACC 603
Db 334 ACCTGGCGGTAGCCGACGAGCTTTCATGCTGAGCGTGGCTTCTGTTGGCTCTGTCGGCG 393

```
QY 604 TAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATTACT 663
Db 394 CCCTGGCCCATGGCCCTTGGCTTCGGCTCGGTGTCGCGCGGTGCTCAGGGTCGACGGCC 453
QY 664 ATAACTGTTTACACAGCATATTCACCTCTGACCATAGAGTGTGTGATGATGATGATGATG 723
Db 454 TCAACATGTTTCAACAGCGTCTTCTGCTCACCCTGCTCAGCGTGGACCGCTACGTCGCGC 513
QY 724 TCTGCCACCTGTCAAGCCCTTACATTTCCGTACTTCCCGAAATGCCAAATATATCAATG 783
Db 514 TGGTGCACCTCTCGCGCGCGCACCTACCGGCGCGCACCGTGGCCACAGCTCATCAACC 573
QY 784 TCTGCAACTGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAAACA 843
Db 574 TGGCGTGTGGCTGGCATCCCTGTTGTTGCTACTCTCCCATCGCCATCTTTCGACACCA 633
QY 844 AATACAGGCAAGGTTCCATAGATTGTACACTAAATTTCTCTCATFCCAACTGGTACTGGG 903
Db 634 GACCGGCTCGCGCGCGCACGCGCTGCTGCAACCTGCAAGTGGCCACACCGCGCTGGT 693
QY 904 AAACCTCGTGAAGATCTGTTTTCATCTTCCGCTTCATTTATGCGAGTGTCTCATCTTA 963
Db 694 CGGCAGTGTTCGTGGTCTACACTTTCTGCTGGGCTTCTGCTGCGGCTTCTGCTGCGGCT 753
QY 964 CCGTGTCTAGGACTGATGATCTTGGCCTCAAGAGTGTCCGATGTCGCGCTTCTCTGGCTCA 1023
Db 754 GYCTGTGCTACCTGCTCATGCTGGGCAAGATGCGCGCGTGGCCCTCTGTCGCGGCTGGC 813
QY 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGGTGGTGGTGGT 1083
Db 814 AGCAGCGCAGCGCTCGGAGAAGAAATCACAGGCTGGTCTGATGGTGGTGGTGGTGGTGGT 873
QY 1084 TCATGCTGTGTCGACTGCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACATTC 1143
Db 874 TTGTGCTGTGTCGATGCTTTTACGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 933
QY 1144 CAGAACTACGTTCCAGACTGTTTCTGGCACTTCTGATGCTCTAGGTTTACACAAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CACGTGCTCTTATCTTAGCTATGCTATGCTATGCT 981
QY 1204 GCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAAAGATGCTTC 1259
Db 982 GCTGGCAACCCVATTTCTATGGYTTCTCTATGGYTTCTCTCCGACAACTTCCGCGGATYCTTC 1037

RESULT 9
; Sequence 320, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 320
; LENGTH: 1498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-320

Query Match 8.7%; Score 187.6; DB 6; Length 1498;
Best Local Similarity 51.9%; Pred. No. 1e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

QY 424 TCAGATCATGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTTCCTGG 483
Db 214 TCGTATCCAGTGCATCTACGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 273
```

```
QY 484 TCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 543
Db 274 TCATCTTCGTGATCCTTCGTAGCCCAAGATGAAGACGGCTAGCAMCATCTACCTGCTCA 333
QY 544 ACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCTTCCCTTCCAGAGTGTGAATTAACC 603
Db 334 ACCTGCGGTAGCCGACGAGCTCTTATGCTGAGCGTGCCTTTCGTGGCCTCTGTCGCGCG 393
QY 604 TAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATTACT 663
Db 394 CCCTGGCCCATGGCCCTTGGCTTCGGCTCGGTGTCGCGCGGTGCTCAGGGTCGACGGCC 453
QY 664 ATAACTGTTTACACAGCATATTCACCTCTGACCATAGAGTGTGTGATGATGATGATGATG 723
Db 454 TCAACATGTTTCAACAGCGTCTTCTGCTCACCCTGCTCAGCGTGGACCGCTACGTCGCGC 513
QY 724 TCTGCCACCTGTCAAGCCCTTACATTTCCGTACTTCCCGAAATGCCAAATATATCAATG 783
Db 514 TGGTGCACCTCTCGCGCGCGCACCTACCGGCGCGCACCGTGGCCACAGCTCATCAACC 573
QY 784 TCTGCAACTGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAAACA 843
Db 574 TGGCGTGTGGCTGGCATCCCTGTTGTTGCTACTCTCCCATCGCCATCTTTCGACACCA 633
QY 844 AATACAGGCAAGGTTCCATAGATTGTACACTAAATTTCTCTCATFCCAACTGGTACTGGG 903
Db 634 GACCGGCTCGCGCGCGCACGCGCTGCTGCAACCTGCAAGTGGCCACACCGCGCTGGT 693
QY 904 AAACCTCGTGAAGATCTGTTTTCATCTTCCGCTTCATTTATGCGAGTGTCTCATCTTA 963
Db 694 CGGCAGTGTTCGTGGTCTACACTTTCTGCTGGGCTTCTGCTGCGGCTTCTGCTGCGGCT 753
QY 964 CCGTGTCTAGGACTGATGATCTTGGCCTCAAGAGTGTCCGATGTCGCGCTTCTCTGGCTCA 1023
Db 754 GYCTGTGCTACCTGCTCATGCTGGGCAAGATGCGCGCGTGGCCCTCTGTCGCGGCTGGC 813
QY 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGGTGGTGGTGGT 1083
Db 814 AGCAGCGCAGCGCTCGGAGAAGAAATCACAGGCTGGTCTGATGGTGGTGGTGGTGGTGGT 873
QY 1084 TCATGCTGTGTCGACTGCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACATTC 1143
Db 874 TTGTGCTGTGTCGATGCTTTTACGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTC 933
QY 1144 CAGAACTACGTTCCAGACTGTTTCTGGCACTTCTGATGCTCTAGGTTTACACAAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CACGTGCTCTTATCTTAGCTATGCTATGCTATGCT 981
QY 1204 GCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAAAGATGCTTC 1259
Db 982 GCTGGCAACCCVATTTCTATGGYTTCTCTATGGYTTCTCTCCGACAACTTCCGCGGATYCTTC 1037

RESULT 10
US-10-995-561-13298
; Sequence 13298, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13298
; LENGTH: 86131
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13298
```

```
Query Match      8.7%; Score 187.6; DB 6; Length 86131;
Best Local Similarity 51.9%; Pred. No. 2.1e-45;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

QY 424 TCACGATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACCTTCCTGG 483
DB 6215 TCAGTATCCAGTGCATCTAGCGCTGTGTGCTGTGGTGGGCTGTGGCAACGCCCTGG 6274
QY 484 TCATGTATGTGATGTGCAGATACACCAAGATGAAGACTGCGCACCACATCTACATTTCA 543
DB 6275 TCATCTTCGTGATCTTCGTAGCCCAAGATGAAGACGGCTACCAACATCTACCTGCTCA 6334
QY 544 ACCTGCTCTGGCAGATGCTTAGCCACCAAGTACCTGCTCCCTTCACAGATGTGAATTACC 603
DB 6335 ACCTGGCCGTAGCCGACGAGCTCTTATGCTGAGCGTGGCTTCGTGGCCGTGTGGCCG 6394
QY 604 TAAATGGGAACATGGCCATTTGGAAACCATCTTTTGCAGATAGTATCTCCATAGATTACT 663
DB 6395 CCCTGGCCACTGGCCCTTCGGCTCGTGTGCGCGGCTGCTCAGCGTCGACGGCC 6454
QY 664 ATAAATGTTACACGATATTCACCCCTGTGCACCATGAGTGTGATCGATATTCGAG 723
DB 6455 TCAACATGTTACACGAGCTCTTCTGTCTCACCGTCTCAGCGTGGACCGCTACGTGGCCG 6514
QY 724 TCTGCCACCTGTCAAGGCTTAGATTTCGTACTCCCGAAATGCCAAATTTATCAATG 783
DB 6515 TGGTGACCCCTCTGCGGCGGCGACCTACCGGCGGCCAGCGTGGCCAAAGCTCATCAACC 6574
QY 784 TCTGCAACTGGATCTCTCTACGCCATTTGGTCTTCTGTAAATGTTTCATGGCTTACAACAA 843
DB 6575 TGGGCGTGTGGCTGGCATCCCTGTTGCTCACTCTCCCATCGCCATCTTCGCGACACCA 6634
QY 844 AATACAGGCAAGTTTCCATAGATTGTACATAACATTTCTCATCCAACTGGTACTGGG 903
DB 6635 GACCGGCTCGCGGCGGCCAGCGGTGGCCTGCAACCTGCAGTGGCCACACCCCGCCTGT 6694
QY 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTGCCCTTCATTATGCCAGTGCCTCATCTTA 963
DB 6695 CGGCAGTGTCTGTGGTGTACACTTTCTGCTGGGCTTCCTGTGCCCGTGTGGCCATGG 6754
QY 964 CGGTGTGCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCA 1023
DB 6755 GYCTGTGCTACCTGCTCATCTGTGGCAAGATGCGCGCGTGGCCCTGTGCGMKGGCTGC 6814
QY 1024 AAGAAAAGACAGGAATCTTCGAAGATACACAGGATGTGTGCTGTGGTGTGGCTGTGT 1083
DB 6815 AGCAGCGCAGGCGCTCGGAGAAGAAAATCACCAAGGCTGTGTGTGTGTGTGTGTGTCT 6874
QY 1084 TCATCGTCTGCTGGACTCCCATTCACATTTACGTCAATTAAGAGCTTTGGTTTACAAATCC 1143
DB 6875 TTGTGCTCTGCTGGATGCTCTTCTAGTGTGAGCTGTGTAACTCTKTCGTGACAGCC 6934
QY 1144 CAGAAACTAGTGTCCAGACTGTTTCTTGGCACTTCTGCAATTTGCTTAGGTTCACAAACA 1203
DB 6935 TTGATGCCACCGTCAAC-----CACGTGTCCCTTATCTTACCTATGCTAGTCAAYA 6982
QY 1204 GCTGCTCAACCCAGCTCTTTATGCAATTTCTGATGAAACTTCAAAACGATGCTTC 1259
DB 6983 GCTGCGCCAAACCCYATTTCTATGGYTTCTCTCCGACAACTTCCGCGCATYCTTC 7038
```

RESULT 11

```
US-11-136-527-2101
; Sequence 2101, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
```

```
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2101
; LENGTH: 3635
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2101
```

```
Query Match      8.2%; Score 177; DB 7; Length 3635;
Best Local Similarity 52.6%; Pred. No. 3.5e-43;
Matches 443; Conservative 0; Mismatches 385; Indels 15; Gaps 2;
```

```
QY 420 GCCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACCTTC 479
DB 316 GCCATTCATCTCTTTTCACTCTCCGTGGTATCTTGTGGGACTGTGTGGGAATCTCC 375
QY 480 CTGGTCACTGTATGTGATTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATT 539
DB 376 ATGGTCACTTACGTGATCCTGCGCTACGCCAAGATGAAGACCGCAACCAACATCTACATT 435
QY 540 TTCAACCTTGTCTCTGGCAGATGCCCTTAGCAGCAGTACCCCTGCCCTTCCAGAGTGTGAAT 599
DB 436 CTAAACCTGGCCATTGCTGATGAGCTGCTCATGCTCAGCGTGCCTTTCTGGTCACTTCC 495
QY 600 TACCTAATGGGAACATGSCCATTTGGAACCATCTTTGCAAGATAGTATCTCCATAGAT 659
DB 496 AGCGTGTGGCCACTGGCCCTTTGGCGGCTACTTTGGCGCTGTGTGCTCAGCGTGAAT 555
QY 660 TACTATAACATGTTTCAACGACATATTACCCCTCTGCACCAACAGTGTGTGATCGATACATT 719
DB 556 CGAGTCAACATGTTTCAACGACATCTACTGCTCTGACTGTGCTGTAGTGTGAGCCGCTATGTG 615
QY 720 GAGTCTGCCACCTGTCTAAGSCCTTAGATTTCGCTACTCCCGCAAAATGCCAAATATATC 779
DB 616 GCTGTGWMGCAACCCGATCAAGGCGCGCTACCCGTCGSCCCACCTGTGGCCAAAGTAGTG 675
QY 780 AATGTCGCACTGATCTCTCTTTCAGCCATTTGCTTCTTCGTGTAATGTTTCATGGC--T 836
DB 676 AACCTGGGCGTGTGGGCTGTGCTGTCTGCTGTTATCTTGCCCATCGTGTCTTCTCACGC 735
QY 837 ACACAAATAATACAGCAAGGTTTCCATAGATTGTACACTAAACATTTCTTCATCCAACTGG 896
DB 736 ACCGAGCCAAACAGCGATGGCAGCGTGGCTGCAACATGCTCATGCCGAGCCCGGCCAG 795
QY 897 TACTGGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCAATATGCCAGTGTCTC 956
DB 796 CGCTGGTGTGGGCTTCTGTTATACACATTTCTCATGGGCTTCTCTGCTGCTGTGCGG 855
QY 957 ATCATTCGCTGTGTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCT 1016
DB 856 GCCATCTGCTGTGTGTGTGTCTCATGTCGCAAGATGCGCATGGTGGCCCTCAAGGCC 915
QY 1017 GGCTCCAAAGAAAAGACAGGAATCTTCGAAGGATCACCAAGGATGGTGTGGTGGTGGT 1076
DB 916 GGTGCGCAGCAGCGCAAGCGCTCAGAGCGCAAGATCACTCTAATGCTGATGATGGTGGTGG 975
QY 1077 GCTGTGTTCACTGCTGTGGACTCCCATTCACATTTAGTCTCATCATTAAGGCTTGGTT 1136
DB 976 ATGGTTTTTGTCTCATCTGCTGGATGCTTTCTACTAGTGGTACAGCTAGTCAACGTTTCGCC 1035
QY 1137 ACAATCCCAAGAACTACGTTCCAGACTGTTTTCTTCGCATCTCTGATTTCTCTAGGTTAC 1196
DB 1036 GAGCAAGACGCGCCACGGT-----GAGCAGTTGTCTGTCTCATCTCTCGGCTAT 1083
QY 1197 ACAAAACAGCTGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACCTTCAAAACGATC 1256
DB 1084 GCCAATAGCTGTGCCAACCCCATCTCTACGGCTTCTCTGTCGGAACAACCTTCAAGCGCTCT 1143
QY 1257 TTC 1259
DB 1144 TTC 1146
```

RESULT 12
US-11-136-527-2159
; Sequence 2159, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2159
; LENGTH: 1384
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2159

Query Match 8.0%; Score 172.6; DB 7; Length 1384;
Best Local Similarity 52.2%; Pred. No. 3.8e-42;
Matches 435; Conservative 0; Mismatches 389; Indels 9; Gaps 2;

Qy 438 CTCCTACTCCATCGTGTGGTGGGCTCTTCGGAAACTTCTCGTGTATGTGATT 497
Db 280 CTCCTACTCTGTGGTGGACCTGGAGTGAATAACATCTGATTTATGTGGT 339

Qy 498 GTCAGATACCAAGATGAAGACTGCCACCAACATCTACATTTCAACCTTGTCTGGCA 557
Db 340 CTGGGACGCGCAAGATGAAGACAGTTACTAACTGTACATCTCTGAACCTGGCGGTGGCT 399

Qy 558 GATGCTTTAGCCACAGTACCTGCCCTTCCAG--AGTGTGAATTACCTAAATGGGAACA 614
Db 400 GACGTATATTTATGTGGGACTTCTTCTTGGCCAGCGAAGACGCGTGTCTCTAC 459

Qy 615 TGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAACATGTC 674
Db 460 TGGCCCTTGGCTCTCTTGTGGCGCTGTGTATGACACTGGATGCAATCAACAGTTC 519

Qy 675 ACCAGCATATTCACCTCTGCACCATAGAGTGTGATGATACATTTGAGTGTGACCTTC 734
Db 520 ACCAGTATCTTCTGCTGATGGTCAATGATGTTGACCGCTACCTGGCGGTGGTCCACCT 579

Qy 735 GTCAGGCTTAGATTTCCGTACTCCCGGAATGCCAAATTAATCAATGTCTGCAACTGG 794
Db 580 CTCGCTCAGCCCGGTGGCGTGGCCAGGTAGCCAGATGGCCAGCGCGCTCTGG 639

Qy 795 ATCTCTCTTTCAGCCATTTGCTTCTTGTATGTTTCATGCTTACAAATAACAGGCAA 854
Db 640 GTCTTTTCGCTCATGCTCTCTGCGCTCTTGTGCTTCG-----CGGATGTCAGGAG 693

Qy 855 GGTTCATAGATTGACACTAACTTCTCATCCAACTGGTACTGGGAAACCTCGTG 914
Db 694 GGCTGGGACACTGCAACCTGAGCTGGCCAGAGCTGTGGGGCTGTGGGGTGCAGACCTTC 753

Qy 915 AAGATCTGTGTTTTCATCTTCCCTTCAATTTATGTCAGTGTCTATACCTGCTGTAT 974
Db 754 ATCACTTACAGCTGTGTGTGGGCTTCTTGGGGCCCTGCTGGTGTCTGTGTGTCTAC 813

Qy 975 GGACTGATGATCTTGGCGCTCAAGAGTGTCCGCATGTCTCTGGCTCCAAAGAAAGGAC 1034
Db 814 CTGCTCATTTGGTCAAGGTGAAGCTGCAGCATGCGGTAGGCTCTCAAGCGGAGG 873

Qy 1035 AGGAATCTTCAAGAGATCACCAGGATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1094
Db 874 CGCTCGGACCGCAAGGTGACTCGCATGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 933

Qy 1095 TGGACTCCCATTCATTTAGTTCATTAAGCCTTGGTTACATCCCAAGAACTACG 1154

934 TGGCTGCCTTCTTCATTTGTCAACATGTCACACCTGGCCTTCACTGCCGAGGAACCC 993

1155 TTCCAGACTGTTTCTTTGGCACCTTCTGATTTGTCTAGGTTTACACAAACAGCTGCTCAAC 1214

994 ACATCTGCCGGCCTCTATTTCTTTGTGGTGTCTATCTTATGCAATAGCTGTGCCAAC 1053

1215 CCAGTCTCTTATGATCATTTCTGGATGAAACTTCAAAACGATGCTTTCAGAGATT 1267

1054 CCCTGCTCTACGGCTTCTCTCGGACAACTTCGCCAGAGCTTCCGGAAGGT 1106

RESULT 13
US-11-136-527-3742
; Sequence 3742, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3742
; LENGTH: 1560
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3742

Query Match 7.3%; Score 158.8; DB 7; Length 1560;
Best Local Similarity 50.5%; Pred. No. 7.3e-38;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;

Qy 424 TCACGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGAAACTTCTCTGG 483
Db 341 TAATATCCAGTCACTATGCGCTCGTGTCTGTGGTGGGCTGGTAGGAAACGCCCTGG 400

Qy 484 TCATGTATGTGATGTGATACATACCAAGATGAAGACTGCCACCAACATCTACATTTCA 543
Db 401 TCATATTGTGTGATCTTACGCTATGCCAAATGAAGACAGCACCAACATCTACCTGTCA 460

Qy 544 ACCTGTCTGGCAGATGCTTAGCCACAGTACCTTCCGCTTCCAGTGTGAATACC 603
Db 461 ACCTGGCGCTCGTGTGATGAGCTCTTATGCTAGTGTGCCATTTGTGGCTCGCGGCTG 520

Qy 604 TAATGGAAACATGGCCATTTGGAAACCATCTTTTGCAGATAGTATCTCCATAGATTACT 663
Db 521 CCCTGGCCACTGGCCGCTTGGGGGGTGTGTGCGCGGAGTGTCTAGTGTGACGCGC 580

Qy 664 ATAACATGTTTACACAGCATATTCACTCTGCAACCATAGTGTGTGATGATGATGAG 723
Db 581 TTAACATGTTTACAGAGTGTCTTCTGCTTACAGTGTCTGAGTGTGATGATGATGAG 640

Qy 724 TCTGCCACCTGTCAAGGCTTATGATTCGTTACTCCCGAATGCCAAATATTAATCAATG 783
Db 641 TAGTGACCTCTCTCGAGCTGCCACCTTACCGGGGGCCAGCGTGGCCAAAGTAAATCAAC 700

Qy 784 TCTGCAACTGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATTTTCATGGCTACAAAC 843
Db 701 TGGAGTGTGGCTAGCATCTTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 760

Qy 844 AATACAGGCAAGGTTTCCATAGATTGTACACTAACTTCTCTCATCCAACTGGTGTGG 903
Db 761 GGCCAGCTCTGTGGGGTGGAGCAGTAGTGTGCAACCTGCACTGCGCTCACCCGCGCTGGT 820

Qy 904 AAAACCTGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCCAGTGTCTCATTA 963
Db 821 CTGAGTCTTGTGATCTATACCTTTTGTGTGGGCTTCTTACTCCCGGTTCTTGGCTATCG 880

Qy 964 CCGTGTGCTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023

Db 881 GATTATGTTACCTGCTTATCGTGGGCAAGATCGTGCTGTGGCCCTGCGGGCTGGCTGGC 940
Qy 1024 AAAAAAGACAGGAATCTTCGAAGATCACCAGGATGCTGCTGGTGGTGGTGGTGGT 1083
Db 941 AACACGGAGACCTCAGAGAAGAAGATCACTAGGCTCGTGTAAATGGTGGTGAATGCT 1000
Qy 1084 TCATCGCTCTGGACTCCCAATTCACATTTACGTATCATTTAAAGCCTTGGTTACAATCC 1143
Db 1001 TTGTGCTATGCTGGATGGCAATTCATGTAGTGAGCTTCTGAATCTGTTTGCACAGCC 1060
Qy 1144 CAGAAATAGTTCACAGACTGTTTCTTGACACTTCTGCAATGCTCTAGGTTACACAAACA 1203
Db 1061 TCGATGCCACTGTCACCAATGTGTCCTCATCTCAGCTATGCC-----AAC 1108
Qy 1204 GTCGCTCAACCCAGTCCCTTTATGCAATTTCTGATGAAATCTCAACAGATGCTTC 1259
Db 1109 GCTGTGCCAACCGATTCTCTATGGTTCTCTCAGACCAACTTCCGACGCTCTTTC 1164
RESULT 14
US-10-533-355-9
; Sequence 9, Application US/10533355
; Publication No. US20050272040A1
; GENERAL INFORMATION:
; APPLICANT: University of Medicine and Dentistry of New Jersey
; APPLICANT: Black, Ira B.
; TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
; FILE REFERENCE: UMD-0016
; CURRENT APPLICATION NUMBER: US/10/533,355
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: US 60/422,986
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1865
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-533-355-9

Query Match 7.3%; Score 158.8; DB 6; Length 1865;
Best Local Similarity 50.5%; Pred. No. 8.3e-38;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;
Qy 424 TCAGATCATGGCCCTCTACTCATCGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 483
Db 189 TAACTATCCAGTGCATCTATGCGCTGCTGTGTCTGGTGGGCTGTGTAGGAAACGCCCTGG 248
Qy 484 TCATGTATGTGTTGTCAGATACCAAGATGAAGACTGCCACCAATCTACATTTTCA 543
Db 249 TCATATTCGTGATCTTACGCTATGTCGCTATGTCGCTATGTCGCTATGTCGCTATGTC 308
Qy 544 ACCTTGCTCTGGCAGATGCTTAGCCACAGTACCTGCTGCCCTTCCAGAGTGTGAATACC 603
Db 309 ACCTGCGCTGCTGTATGAGCTTCTCATGCTAGTGTGCAATTTGTGGCTCGCGGGCTG 368
Qy 604 TAAATGGGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCATAGATTAAT 663
Db 369 CCCTGCGCCACTGGCCGTTGGGGCGTGTGTGCGCGCGAGTGTCTAGTGTGGACGGCC 428
Qy 664 ATAACTATGTTACCAAGATATTCACCTCTGACCATGATGTGTGATCGATATCATTTGAG 723
Db 429 TTAACATGTTACAGAGTGTCTTCTGCTCTCAGTGTCTCAGCGTGGATCGCTATGTGGCTG 488
Qy 724 TCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGTCAAAATATCAATG 783
Db 489 TAGTGACCTCTGCGAGTGTGCCACCTACCGGGCGCCAGCTGGGCAAGCTAATCAACC 548
Qy 784 TCTGCAACTGGATCTCTCTTACAGCAATTTGGTCTTCTGTAAATGTTTCATGGCTTACAA 843
Db 549 TGGGAGTGTGGCTAGCATCTTGTGTCACCTGCGCCATCGCAGTCTTCGCTGACACTA 608

Search completed: January 9, 2006, 15:42:38

Qy 844 AATACAGGAAGGTTTCCATAGATTGTACATAAACAATTTCTCATCCAACTGGTACTGGG 903
Db 609 GCCAGCTCGTGGGGGTGAGCAGTAGCTTGCAACTGCACCTGCGCTCACCCGGCTGGT 668
Qy 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCAATTAAGCAGTGTCTCATCA 963
Db 669 CTGCACTCTTGTGATCTATACTTTTGTGTGGGCTTCTACTCCCGGTTCTGGCTATCG 728
Qy 964 CCGTGTGCTATGAGTATGATCTTTCGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 729 GATTAATGTTACTGCTTATCGTGGCAAGATGCTGTGGCCCTGCGGGCTGGCTGGC 788
Qy 1024 AAGAAAAGCAGGAATCTTCGAAGATCACCAGATGCTGTGGTGGTGGTGGTGGTGGT 1083
Db 789 AACACGGAGGCGCTCAGAGAAGATCACTAGGCTCGTGTAAATGGTGGTGAATGCT 848
Qy 1084 TCATCGTCTGTGGACTCCCATTCACATTTAGCTCATATTAAGCCTTGGTTACAAATCC 1143
Db 849 TTGTGCTATGCTGGATGCAATCTATGTAGTGACGCTTCTGAATCTGTTTGTCCAGCC 908
Qy 1144 CAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGTGTCTAGGTTACAAACA 1203
Db 909 TCGATGCCACTGTCAACCATGTGTCCTCATCTCAGCTATGCC-----AAC 956
Qy 1204 GCTGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAATCTTCAACAGATGCTTC 1259
Db 957 GCTGTGCCAACCCGATTTCTATGTTTCTTATGTTTCTCTCAGACAACTTCCGACGCTCTTTC 1012
RESULT 15
US-10-750-185-62128/c
; Sequence 62128, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62128
; LENGTH: 856
; TYPE: DNA
; ORGANISM: Bovine 19866881260208
US-10-750-185-62128

Query Match 7.0%; Score 151.8; DB 6; Length 856;
Best Local Similarity 93.0%; Pred. No. 6.5e-36;
Matches 159; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
Qy 1209 CTCAACCCAGTCTTTTATGCAATTTCTGGATGAAAATCTTCAACGATGTTTCAGAGATTTC 1268
Db 856 CTGAACCCCGCTTTTATGCAATTTCTGGATGAAAATCTTCAACGATGTTTCAGAGATTTC 797
Qy 1269 TGTATCCCAACCTCTTCCAACTTGAAGCAAAAACTCCACTCGAATTCGTGAGACACT 1328
Db 796 TGTATCCCAACTCTCTCCACCATTTGAGCAGCAAAATCTCCACTCGAATTCGTGAGACACC 737
Qy 1329 AGAGACACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCAGCTA 1379
Db 736 AGAGACACCCCTCCACGCCCAATACGGTGGATAGAACTAATCATCAGCTA 686

Job time : 310.514 secs

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model
Run on: January 8, 2006, 17:55:42 ; Search time 368.208 Seconds
(without alignments)
10451.753 Million cell updates/sec

Title: US-09-883-839-1-401-THEN-GGC
Perfect score: 2165
Sequence: 1 ggaattccggctataggcag.....gtggtttgtcttcgaattc 2165

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
1: /cgn2_6/prodata/1/ina/1_COMB.seq.*
2: /cgn2_6/prodata/1/ina/5_COMB.seq.*
3: /cgn2_6/prodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/prodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/prodata/1/ina/H_COMB.seq.*
6: /cgn2_6/prodata/1/ina/PTUS_COMB.seq.*
7: /cgn2_6/prodata/1/ina/PP_COMB.seq.*
8: /cgn2_6/prodata/1/ina/RE_COMB.seq.*
9: /cgn2_6/prodata/1/ina/backfiles1.seq.*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2147	99.2	2162	3	US-09-351-198-1
2	2147	99.2	2162	3	US-09-113-426-1
3	2147	99.2	2162	3	US-09-016-434-1379
4	2137.4	98.7	2162	3	US-09-355-709C-7
5	2125	98.2	2160	3	US-08-188-275A-1
6	1540	71.1	1610	3	US-08-889-108-7
7	1540	71.1	1610	6	PCT-US94-10358-7
8	1186.8	54.8	1203	3	US-09-826-509-544
9	1166	53.9	2229	3	US-09-214-904-1
10	1152.2	53.2	1182	3	US-09-826-509-546
11	1135.6	52.5	1981	3	US-08-387-707-15
12	1135.6	51.7	2135	3	US-08-405-271A-15
13	1118.8	51.7	2135	3	US-08-430-286A-1
14	1087.6	50.2	1618	3	US-08-889-108-1
15	1087.6	50.2	1618	3	US-08-889-108-3
16	1087.6	50.2	1618	3	US-08-120-601B-1
17	1087.6	50.2	1618	3	US-08-120-601B-3
18	1087.6	50.2	1618	6	PCT-US94-10358-1
19	1087.6	50.2	1618	6	PCT-US94-10358-3
20	1059.6	48.9	1610	3	US-09-761-962A-16
21	905	41.8	1542	3	US-09-761-962A-4
22	903.6	41.7	1365	3	US-09-761-962A-11
23	903.6	41.7	1423	3	US-09-761-962A-1
24	902.2	41.7	1334	3	US-09-761-962A-3

25	902.2	41.7	1729	3	US-09-761-962A-9	Sequence 9, Appli
26	902.2	41.7	2045	3	US-09-761-962A-10	Sequence 10, Appl
27	882.2	40.7	1346	3	US-09-761-962A-12	Sequence 12, Appl
28	803.6	37.1	1238	3	US-09-761-962A-2	Sequence 2, Appli
29	709.8	32.8	1257	3	US-09-761-962A-5	Sequence 5, Appli
30	695.2	32.1	830	3	US-08-387-707-13	Sequence 13, Appl
31	695.2	32.1	830	3	US-08-405-271A-13	Sequence 13, Appl
32	453	20.9	1275	3	US-09-341-446B-7	Sequence 7, Appli
33	451.4	20.8	1275	3	US-09-341-446B-5	Sequence 5, Appli
34	448.4	20.7	1829	2	US-08-411-859-1	Sequence 1, Appli
35	448.4	20.7	1829	3	US-08-387-707-7	Sequence 7, Appli
36	448.4	20.7	1829	3	US-08-405-271A-7	Sequence 7, Appli
37	448.4	20.7	2218	3	US-09-214-904-3	Sequence 3, Appli
38	448.4	20.7	2219	3	US-08-432-174A-1	Sequence 1, Appli
39	448.4	20.7	2272	3	US-08-147-592A-3	Sequence 3, Appli
40	448.4	20.7	2272	3	US-08-292-694A-3	Sequence 3, Appli
41	447	20.6	1773	3	US-09-016-434-1405	Sequence 1405, Ap
42	445.4	20.6	1119	3	US-09-826-509-538	Sequence 538, App
43	440.8	20.4	998	3	US-08-432-174A-3	Sequence 3, Appli
44	437.8	20.2	441	3	US-09-530-880-5	Sequence 5, Appli
45	432	20.0	1142	3	US-08-765-743-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-09-351-198-1
; Sequence 1, Application US/09351198
; Patent No. 6335168
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S
; APPLICANT: Yu, Lei
; APPLICANT: Tischfield, Jay A.
; TITLE OF INVENTION: ALELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THEREON
; FILE REFERENCE: 600-1-226N
; CURRENT APPLICATION NUMBER: US/09/351,198
; CURRENT FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: 60/092,402
; EARLIER FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
US-09-351-198-1

Query Match 99.2%; Score 2147; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;

QY	1	GGAAATCCGGCTATAGCAGAGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA	60
Db	1	GGAAATCCGGCTATAGCAGAGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA	60
QY	61	CGCTCTCTCTGCTCAGCCAGGACTGTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC	120
Db	61	CGCTCTCTCTGCTCAGCCAGGACTGTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC	120
QY	121	GGCGAAAGGAAGCGGCTGAGCGCTTGGAAACCGGAAAGTTCGCTCGGTCTCTCGCTACCT	180

Db 121 GCGAAGGAGCGCTGAGCGCTTGGAACCCGAAAGTCTCGGTCTCTGGCTACCT 180
Qy 181 GCGACAGCGGTGCGCGCGCGGTGAGTACCATGGACAGAGCGCTGCCCGCCGACGACG 240
Db 181 GCGACAGCGGTGCGCGCGCGGTGAGTACCATGGACAGAGCGCTGCCCGCCGACGACG 240
Qy 241 CCAGCAATTGCATGCTGCTGGCGTACTCAAGTTGCTCCCGACGACCCAGCGCCCGTT 300
Db 241 CCAGCAATTGCATGCTGCTGGCGTACTCAAGTTGCTCCCGACGACCCAGCGCCCGTT 300
Qy 301 CCGGGTCAACTGTGCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
Db 301 CCGGGTCAACTGTGCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
Qy 361 CCAACTGGGCGGAGAGACAGCTGTGCGCTCCGACCGGCGAGTCCCTCCATGATCA 420
Db 361 CCAACTGGGCGGAGAGACAGCTGTGCGCTCCGACCGGCGAGTCCCTCCATGATCA 417
Qy 421 CGGCCATCAGCATCATGCGCTCTACTCCATGCTGCTGGTGGGGCTCTTCGAAACT 480
Db 418 CGGCCATCAGCATCATGCGCTCTACTCCATGCTGCTGGTGGGGCTCTTCGAAACT 477
Qy 481 TCCTGGTCACTGATGTGATGTGCATACACCAAGATGAAGCTGCCACCAACATCTACA 540
Db 478 TCCTGGTCACTGATGTGATGTGCATACACCAAGATGAAGCTGCCACCAACATCTACA 537
Qy 541 TTTTCAACTGTCTGCGAGATGCTTAGCGCACGATACCGTCCGCTTCAGAGTGTGA 600
Db 538 TTTTCAACTGTCTGCGAGATGCTTAGCGCACGATACCGTCCGCTTCAGAGTGTGA 597
Qy 601 ATTACTTAATGGAAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCCATAG 660
Db 598 ATTACTTAATGGAAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCCATAG 657
Qy 661 ATTACTTAACATGTTTCAACGACATATTCACCCCTCTGCACCATGAGTGTTCGATACA 720
Db 658 ATTACTTAACATGTTTCAACGACATATTCACCCCTCTGCACCATGAGTGTTCGATACA 717
Qy 721 TTGAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATGCTCCCGAAATGCCAAATTA 780
Db 718 TTGAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATGCTCCCGAAATGCCAAATTA 777
Qy 781 TCAATGTCTGCAACTGAGTCTCTCTTCAGCCATTTGCTTCCTGTAATGTTTCATGGCTA 840
Db 778 TCAATGTCTGCAACTGAGTCTCTCTTCAGCCATTTGCTTCCTGTAATGTTTCATGGCTA 837
Qy 841 CAACAAAATACAGGCAAGGTTCCATAGATTTGTACACTAACATTTCTCATCAACCTGGT 900
Db 838 CAACAAAATACAGGCAAGGTTCCATAGATTTGTACACTAACATTTCTCATCAACCTGGT 897
Qy 901 ACTGGGAAAACTCGTGAAGATCTGTGTTTTTCATCTTCGCTTCATTTATGCGAGTGTCA 960
Db 898 ACTGGGAAAACTCGTGAAGATCTGTGTTTTTCATCTTCGCTTCATTTATGCGAGTGTCA 957
Qy 961 TCATTACCGTGTCTATGAGTGTGCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTG 1020
Db 958 TCATTACCGTGTCTATGAGTGTGCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTG 1017
Qy 1021 GCTCAAAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGCTGTGTGTGTGG 1080
Db 1018 GCTCAAAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGCTGTGTGTGTGG 1077
Qy 1081 CTGTGTTTCATGCTGTGCTGGACTCCCATTCATTTAGTCTCATTTAAAGCCTTGTTA 1140
Db 1078 CTGTGTTTCATGCTGTGCTGGACTCCCATTCATTTAGTCTCATTTAAAGCCTTGTTA 1137
Qy 1141 CAATCCAGAAACTACGTTCCAGAGTGTCTTGGCACTTCTGCAATGCTCTAGGTACA 1200
Db 1138 CAATCCAGAAACTACGTTCCAGAGTGTCTTGGCACTTCTGCAATGCTCTAGGTACA 1197
Qy 1201 CAACAGCTGCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAACTTCAACAGATGCT 1260
Db 1198 CAACAGCTGCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAACTTCAACAGATGCT 1257

Qy 1261 TCAGAGAGTTCTGTATCCCAACCTCTTCCAACATTGAGCAACAAACTCCACTCGAATTC 1320
Db 1258 TCAGAGAGTTCTGTATCCCAACCTCTTCCAACATTGAGCAACAAACTCCACTCGAATTC 1317
Qy 1321 GTCAAGAACACTAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGC 1380
Db 1318 GTCAAGAACACTAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGC 1377
Qy 1381 TAGAAAATCTGGAAAGCAGAAACTGCTCGTGTGCCCTTAACAGGGTCTCATGCAATTCGAC 1440
Db 1378 TAGAAAATCTGGAAAGCAGAAACTGCTCGTGTGCCCTTAACAGGGTCTCATGCAATTCGAC 1437
Qy 1441 CTTCAACAGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGG 1500
Db 1438 CTTCAACAGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGG 1497
Qy 1501 AGGCTCTAAATCTCTAGGAAAGTCCCTACTCTTTTAGGTCTATCCAACTCTTTCTCTCTGG 1560
Db 1498 AGGCTCTAAATCTCTAGGAAAGTCCCTACTCTTTTAGGTCTATCCAACTCTTTCTCTCTGG 1557
Qy 1561 CCACCTGCTCTGCACATTTAGAGGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGAAAG 1620
Db 1558 CCACCTGCTCTGCACATTTAGAGGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGAAAG 1617
Qy 1621 GAATATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
Db 1618 GAATATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
Qy 1681 GTGTATGTGAATTTGAAGTCTATCAATAAAGGTGACCCCTCTGTCTGTGAAGATTTTATTTT 1740
Db 1678 GTGTATGTGAATTTGAAGTCTATCAATAAAGGTGACCCCTCTGTCTGTGAAGATTTTATTTT 1737
Qy 1741 CAAGCAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACGTAGTA 1800
Db 1738 CAAGCAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACGTAGTA 1797
Qy 1801 ACACATAAAGTAAATGCTTACCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTT 1860
Db 1798 ACACATAAAGTAAATGCTTACCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTT 1857
Qy 1861 TAGTGTTTTTGCAAGGAAATGAATCCATTAATTTATTTTAGACTTTTAACTTCAACTTAA 1920
Db 1858 TAGTGTTTTTGCAAGGAAATGAATCCATTAATTTATTTTAGACTTTTAACTTCAACTTAA 1917
Qy 1921 AATTAGCATCTGGCTAAGGCATCATTTTACCTCCATTTCTTGGTTTTGTATTGTTTAAA 1980
Db 1918 AATTAGCATCTGGCTAAGGCATCATTTTACCTCCATTTCTTGGTTTTGTATTGTTTAAA 1977
Qy 1981 AAAAATAACATCTCTTTTCATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAGG 2040
Db 1978 AAAAATAACATCTCTTTTCATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAGG 2037
Qy 2041 TAATCTGAAACACACAGTCAATGTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAATA 2100
Db 2038 TAATCTGAAACACACAGTCAATGTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAATA 2097
Qy 2101 CTTCCAAAGAGTCAATGATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTTGTTCTGG 2160
Db 2098 CTTCCAAAGAGTCAATGATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTTGTTCTGG 2157
Qy 2161 AATTC 2165
Db 2158 AATTC 2162

RESULT 2

US-09-113-426-1

; Sequence 1, Application US/09113426

; Patent No. 637207

; GENERAL INFORMATION:

; APPLICANT: Kreek, Mary J

; APPLICANT: Laforge, Karl S

```
; APPLICANT: Yu, Lei
; APPLICANT: Fischfield, Jay A.
; TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THEREON
; FILE REFERENCE: 600-1-226
; CURRENT APPLICATION NUMBER: US/09/113,426
; CURRENT FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2091)
; OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
US-09-113-426-1

Query Match          99.2%; Score 2147; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;

QY      1  GGAATTCGGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGTCCGGTCCCTCCGCTGA 60
DB      1  GGAATTCGGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGTCCGGTCCCTCCGCTGA 60

QY      61  CGCTCCTCTCTGTCAGCAGGACTGGTTTCTGTAAGAAACAGCAGAGGCTGTGGCAGC 120
DB      61  CGCTCCTCTCTGTCAGCAGGACTGGTTTCTGTAAGAAACAGCAGAGGCTGTGGCAGC 120

QY      121  GCGGAAAGGAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACCT 180
DB      121  GCGGAAAGGAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACCT 180

QY      181  CGCAGAGCGGTGCGCGCGCGGCGTCCAGTACCATGAGCAGAGCGCTGCCGCCACGAAAG 240
DB      181  CGCAGAGCGGTGCGCGCGCGGCGTCCAGTACCATGAGCAGAGCGCTGCCGCCACGAAAG 240

QY      241  CCAGCAATTCAGTATGCTGGGCTGCTCAAGTTGCTCCCGCAGCAGCAGCGCGGTT 300
DB      241  CCAGCAATTCAGTATGCTGGGCTGCTCAAGTTGCTCCCGCAGCAGCAGCGCGGTT 300

QY      301  CTTGGGTCAACTTGTCCCACTTAGATGGCAACTGTCCGACCCATGCGGTCCGAAACCGCA 360
DB      301  CTTGGGTCAACTTGTCCCACTTAGATGGCAACTGTCCGACCCATGCGGTCCGAAACCGCA 360

QY      361  CCAACCTGGCGGGAGAGACAGCTGTGCCCTCCGACCGGCGGCAAGTCCCTCCATGATCA 420
DB      361  CCAACCTGGCGGGAGAGACAGCTGTGCCCTCCGACCGGCGGCAAGTCCCTCCATGATCA 417

QY      421  CGGCCATCAAGATCATGAGGCTCTACTCCATCGTGTGCGGTGGGCTCTTCGGAACT 480
DB      418  CGGCCATCAAGATCATGAGGCTCTACTCCATCGTGTGCGGTGGGCTCTTCGGAACT 477

QY      481  TCTGGTCAATGATGATGTTGTCAGATACACCAAGATGAAGTGCACCAACATCTACA 540
DB      478  TCTGGTCAATGATGATGTTGTCAGATACACCAAGATGAAGTGCACCAACATCTACA 537

QY      541  TTTTCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCCTGCCCTTCAGAGTGCA 600
DB      538  TTTTCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCCTGCCCTTCAGAGTGCA 597

QY      601  ATTACCTAATGGAAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCATAG 660
DB      598  ATTACCTAATGGAAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCATAG 657

QY      661  ATTACTATAACATGTTCCAGCAGCATATTACCCCTCTGCACCATGAGTGTGATCGATACA 720
```

```
Db      658  ATTACTATAACATGTTCCAGCAGCATATTACCCCTCTGCACCATGAGTGTGATCGATACA 717
QY      721  TTGCAGTCTGCCACCCCTGTCAAGGCTTAGAATTTCCGTACTCCCGAATGCCAAATTA 780
DB      718  TTGCAGTCTGCCACCCCTGTCAAGGCTTAGAATTTCCGTACTCCCGAATGCCAAATTA 777
QY      781  TCAATGTCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCCTGTAAATTTATGGCTA 840
DB      778  TCAATGTCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCCTGTAAATTTATGGCTA 837
QY      841  CAAACAAATACAGCAAGGTTCCATAGATTGTACACTAACATTCTCTCATCCAACTGGT 900
DB      838  CAAACAAATACAGCAAGGTTCCATAGATTGTACACTAACATTCTCTCATCCAACTGGT 897
QY      901  ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATTAATGCCAGTGCTCA 960
DB      898  ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATTAATGCCAGTGCTCA 957
QY      961  TCATTACCGTGTGCTATGGAATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTG 1020
DB      958  TCATTACCGTGTGCTATGGAATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTG 1017
QY      1021  GCTCCAAAGAAAGGACAGGAATCTTTCGAAGATCACAGGATGCTGGTGGTGG 1080
DB      1018  GCTCCAAAGAAAGGACAGGAATCTTTCGAAGATCACAGGATGCTGGTGGTGGTGG 1077
QY      1081  CTGTGTTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
DB      1078  CTGTGTTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1137
QY      1141  CAATCCCAAGAAATACAGTTCAGAGTCTTTCGCACTTTCGCACTTTCGCACTTTCGCACTT 1200
DB      1138  CAATCCCAAGAAATACAGTTCAGAGTCTTTCGCACTTTCGCACTTTCGCACTTTCGCACTT 1197
QY      1201  CAAACAGCTGCTCAACCCAGTCTTTCATGATGTTCTGATGAAATCTTCAACCATGCT 1260
DB      1198  CAAACAGCTGCTCAACCCAGTCTTTCATGATGTTCTGATGAAATCTTCAACCATGCT 1257
QY      1261  TCAGAGAGTCTGTATCCCACTTTCGCACTTTCGCACTTTCGCACTTTCGCACTTTCGCACTT 1320
DB      1258  TCAGAGAGTCTGTATCCCACTTTCGCACTTTCGCACTTTCGCACTTTCGCACTTTCGCACTT 1317
QY      1321  GTCAGAACATACAGAGACCAACCCCTCCAGGCAATACAGTGGATGAGAACTAAATCATCAGC 1380
DB      1318  GTCAGAACATACAGAGACCAACCCCTCCAGGCAATACAGTGGATGAGAACTAAATCATCAGC 1377
QY      1381  TAGAAAAATCTGGAGCAGAAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1440
DB      1378  TAGAAAAATCTGGAGCAGAAAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1437
QY      1441  CTTCCACCAAGCTTAGAAGCCCACTGATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGG 1500
DB      1438  CTTCCACCAAGCTTAGAAGCCCACTGATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGG 1497
QY      1501  AGGCTCTAATCTCTAGGAAAGTGTCTTTCATGAGTCTTTCATGAGTCTTTCATGAGTCTT 1560
DB      1498  AGGCTCTAATCTCTAGGAAAGTGTCTTTCATGAGTCTTTCATGAGTCTTTCATGAGTCTT 1557
QY      1561  CCACCTCTCTCTGCACTTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGAAGGAAAG 1620
DB      1558  CCACCTCTCTCTGCACTTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGAAGGAAAG 1617
QY      1621  GAAATATACACCCAGGAGTCCAGTTTGTGCAAGACCAAGTGGAAACCAAAACCCATC 1680
DB      1618  GAAATATACACCCAGGAGTCCAGTTTGTGCAAGACCAAGTGGAAACCAAAACCCATC 1677
QY      1681  GTGGTATGTGAATCAAGTCTATATAAAGAGTGACCTTCTCTCTGTGAAGATTTTATTTT 1740
DB      1678  GTGGTATGTGAATCAAGTCTATATAAAGAGTGACCTTCTCTCTGTGAAGATTTTATTTT 1737
QY      1741  CAAAGCAAAATTTATGACCTCAACAAAGAAAGCAATCTTTTGTAAAGTTCACCGTAGTA 1800
```

Db 1738 CAAGCAAAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTACCGTAGTA 1797
Qy 1801 ACACATAAGTAAGTCTACCTCTGATCAAAAGCACCTTGAATGGAGTCCGAGCTCTTTT 1860
Db 1798 ACACATAAGTAAGTCTACCTCTGATCAAAAGCACCTTGAATGGAGTCCGAGTCTTTT 1857
Qy 1861 TAGTGTTTTGCAAGGGAATGAATCCATTAATTTCTATTTTAGACTTTTAACTTTCAACTTAA 1920
Db 1858 TAGTGTTTTGCAAGGGAATGAATCCATTAATTTCTATTTTAGACTTTTAACTTTCAACTTAA 1917
Qy 1921 AATTAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTTGTATTGTTAAA 1980
Db 1918 AATTAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTTGTATTGTTAAA 1977
Qy 1961 AAAATAATACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGAAGAGATTAGCATGAAGG 2040
Db 1978 AAAATAATACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGAAGAGATTAGCATGAAGG 2037
Qy 2041 TAATCTGAAACACAGTCAATGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATA 2100
Db 2038 TAATCTGAAACACAGTCAATGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATA 2097
Qy 2101 CTTCAAAGAGTCAATGAGGGAATTTTTCATTTCTTAGGCTTTAGTGTTTTGTTCTCTGG 2160
Db 2098 CTTCAAAGAGTCAATGAGGGAATTTTTCATTTCTTAGGCTTTAGTGTTTTGTTCTCTGG 2157
Qy 2161 AATTC 2165
Db 2158 AATTC 2162

RESULT 3

US-09-016-434-1379
; Sequence 1379, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HERewith
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER:
; CLASSIFICATION:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1379:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2162 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENEBANK
; CLONE: 9452072
US-09-016-434-1379
Query Match 99.2%; Score 2147; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;
Qy 1 GGAATTCGGCTATAGCAGAGAGAAATGTACAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGCAGAGAGAAATGTACAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Qy 61 CGCTCCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC 120
Qy 121 GGCAGAAAGGAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
Db 121 GGCAGAAAGGAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
Qy 181 CGCACAGCGGTGCCCCCGGCGCTCAGTACCATGGAAGAGCTGCCCCCAGCAAGC 240
Db 181 CGCACAGCGGTGCCCCCGGCGCTCAGTACCATGGAAGAGCTGCCCCCAGCAAGC 240
Qy 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCCAGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCCAGCCCGGTT 300
Qy 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCGACCCATGCGGTCCGAAACGCA 360
Db 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCGACCCATGCGGTCCGAAACGCA 360
Qy 361 CCAACCTGGCGGAGAGACAGCCCTGTGCCCTCCGACCGGCGGAGCTCCCTCCATGATCA 420
Db 361 CCAACCTGGCGGAGAGACAGCCCTGTGCCCTCCGACCGGCGGAGCTCCCTCCATGATCA 417
Qy 421 CGGCGATCAGATCATGGCCCTCTACTCCATGCTGCTGGTGGTGGGCTCTTCGGAACCT 480
Db 418 CGGCGATCAGATCATGGCCCTCTACTCCATGCTGCTGGTGGTGGGCTCTTCGGAACCT 477
Qy 481 TCCTGTGTCATGTATGTCATGTAGATACACCAAGATGAAGACTGCCACCAACATCTACA 540
Db 478 TCCTGTGTCATGTATGTCATGTAGATACACCAAGATGAAGACTGCCACCAACATCTACA 537
Qy 541 TTTTCAAACCTTGTCTCGCAGATGCCCTTAGCCACCATGACCTCCCTTCCAGAGTGTGA 600
Db 538 TTTTCAAACCTTGTCTCGCAGATGCCCTTAGCCACCATGACCTCCCTTCCAGAGTGTGA 597
Qy 601 ATTACCTAATGGGAAACATGGCCATTTGGAACCATCTCTTTCGCAAGATAGTATCTCCATAG 660
Db 598 ATTACCTAATGGGAAACATGGCCATTTGGAACCATCTCTTTCGCAAGATAGTATCTCCATAG 657
Qy 661 ATTACTATAACATGTTCCACAGCATATTTCAACCTCTGCACCATGAGTGTGATCGATACA 720
Db 658 ATTACTATAACATGTTCCACAGCATATTTCAACCTCTGCACCATGAGTGTGATCGATACA 717
Qy 721 TTGCAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTTACTCTCCCGAAATGCCAAAATTA 780
Db 718 TTGCAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTTACTCTCCCGAAATGCCAAAATTA 777
Qy 781 TCAATGTCTGCAACTGGATCTCTCTTCAGGCATTTGGTCTTCCTGTATGTTATGGCTA 840
Db 778 TCAATGTCTGCAACTGGATCTCTCTTCAGGCATTTGGTCTTCCTGTATGTTATGGCTA 837
Qy 841 CAACAAAATACAGGCAAGGTTCCATAGATTGTACACTAAACATTTCTCTCATCCAACTGGT 900
Db 838 CAACAAAATACAGGCAAGGTTCCATAGATTGTACACTAAACATTTCTCTCATCCAACTGGT 897
Qy 901 ACTGGGAAAACCTCGTGAAGATCTGTGTTTTTCATCTTCGCTTCATTTATGCGAGTGCTCA 960
Db 898 ACTGGGAAAACCTCGTGAAGATCTGTGTTTTTCATCTTCGCTTCATTTATGCGAGTGCTCA 957

QY 961 TCATTACCGTGTGCTATGACTGATGATCTTCGGCTCAAGAGTGTCCGATGCTCTCTG 1020
Db 958 TCATTACCGTGTGCTATGACTGATGATCTTCGGCTCAAGAGTGTCCGATGCTCTCTG 1017
QY 1021 GCTCCAAAGAAAGACAGGAATCTTCGAAGATCACAGGATGCTGTGGTGGTGG 1080
Db 1018 GCTCCAAAGAAAGACAGGAATCTTCGAAGATCACAGGATGCTGTGGTGGTGG 1077
QY 1081 CTGTGTTTCATCGTCTGCTGGACTCCCATTCACATTTAGCTCATTTAAAGCTTGGTTA 1140
Db 1078 CTGTGTTTCATCGTCTGCTGGACTCCCATTCACATTTAGCTCATTTAAAGCTTGGTTA 1137
QY 1141 CAATCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCGCAATTCGTCTAGGTTACA 1200
Db 1138 CAATCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCGCAATTCGTCTAGGTTACA 1197
QY 1201 CAACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACGATGCT 1260
Db 1198 CAACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACGATGCT 1257
QY 1261 TCAGAGAGTTCGTATCCCAACCTCTTCCAACTTGAAGCAACAAATCCACTCGAATTC 1320
Db 1258 TCAGAGAGTTCGTATCCCAACCTCTTCCAACTTGAAGCAACAAATCCACTCGAATTC 1317
QY 1321 GTCAGAACACTAGAGACCCCTCCACGGCCAAATACAGTGATAGAACTAATCATCAGC 1380
Db 1318 GTCAGAACACTAGAGACCCCTCCACGGCCAAATACAGTGATAGAACTAATCATCAGC 1377
QY 1381 TAGAAATCTGAGAGAGAACTGCTCCGCTGCGCTAACAGGGTCTCATGCCATCCGAC 1440
Db 1378 TAGAAATCTGAGAGAGAACTGCTCCGCTGCGCTAACAGGGTCTCATGCCATCCGAC 1437
QY 1441 CTTCCACCAAGCTTAGAAGCACCACATGTATGTGGAAGCAGGTTCCTTCAAGAAATGTGTAG 1500
Db 1438 CTTCCACCAAGCTTAGAAGCACCACATGTATGTGGAAGCAGGTTCCTTCAAGAAATGTGTAG 1497
QY 1501 AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGTGTATCCAACTCTTCTCTGG 1560
Db 1498 AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGTGTATCCAACTCTTCTCTGG 1557
QY 1561 CCACTCTGCTCTGCATTTAGAGGACAGCCAAAGTAAAGTGAAGCATTTGGAAGAAAG 1620
Db 1558 CCACTCTGCTCTGCATTTAGAGGACAGCCAAAGTAAAGTGAAGCATTTGGAAGAAAG 1617
QY 1621 GAATATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATC 1680
Db 1618 GAATATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATC 1677
QY 1681 GTGGTATGTGAATTTGAAGTCATATAAAGGTGACCCCTCTCTGTGTAAAGATTTTATTTT 1740
Db 1678 GTGGTATGTGAATTTGAAGTCATATAAAGGTGACCCCTCTCTGTGTAAAGATTTTATTTT 1737
QY 1741 CAAGCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTCTTAAAGTTTCAAGTAGTA 1800
Db 1738 CAAGCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTCTTAAAGTTTCAAGTAGTA 1797
QY 1801 ACACATAAGTAAATGTCTCTGTATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTT 1860
Db 1798 ACACATAAGTAAATGTCTCTGTATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTT 1857
QY 1861 TAGTGTGTTTTGCAAGGGAATGAATCCATTTCTTATTTTGAATTTTAACTTCAACTTAA 1920
Db 1858 TAGTGTGTTTTGCAAGGGAATGAATCCATTTCTTATTTTGAATTTTAACTTCAACTTAA 1917
QY 1921 AATTAGCATCTGGCTAAGGCAATCTTTTACCTCCATTTCTTGGTTTGTATTTTAA 1980
Db 1918 AATTAGCATCTGGCTAAGGCAATCTTTTACCTCCATTTCTTGGTTTGTATTTTAA 1977
QY 1981 AAAAAATCAATCTTTTCACTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAGG 2040
Db 1978 AAAAAATCAATCTTTTCACTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAGG 2037

QY 2041 TAACTCTGAAACACAGTCTCATGTGTCACTGTAGAAAGGTTGATTTCTCATGCACTNCAATA 2100
Db 2038 TAACTCTGAAACACAGTCTCATGTGTCACTGTAGAAAGGTTGATTTCTCATGCACTNCAATA 2097
QY 2101 CTTCCAAAGAGTCTCATGTGGGGATTTTCACTTTTAGGCTTTAGTGGTTTGTTCCTGG 2160
Db 2098 CTTCCAAAGAGTCTCATGTGGGGATTTTCACTTTTAGGCTTTAGTGGTTTGTTCCTGG 2157
QY 2161 AATTTC 2165
Db 2158 AATTTC 2162

RESULT 4
US-09-355-709C-7
; Sequence 7, Application US/09355709C
; Patent No. 6538120
; GENERAL INFORMATION:
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...
; FILE REFERENCE: 101195-15
; CURRENT APPLICATION NUMBER: US/09/355,709C
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: DE 197 03 925.1
; PRIOR FILING DATE: 1997-02-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic
; OTHER INFORMATION: Clone
; OTHER INFORMATION: cDNA encoding human opiate receptor
; NAME/KEY: unsure
; LOCATION: (2063)
; OTHER INFORMATION: n = unknown
; NAME/KEY: unsure
; LOCATION: (2091)
; OTHER INFORMATION: n = unknown
US-09-355-709C-7

Query Match 98.7%; Score 2137.4; DB 3; Length 2162;
Best Local Similarity 99.8%; Pred No. 0;
Matches 2153; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
QY 9 GGCTATAGCAGAGGAGATGTGATGCTCAGTGTGCTCGCTCGCTCGCTCGCTCGCTCGCTC 69
Db 9 GGCTATAGCAGAGGAGATGTGATGCTCAGTGTGCTCGCTCGCTCGCTCGCTCGCTCGCTC 68
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAGAAACAGCAGAGAGCTGTGGCAGCGCCGAAAG 128
Db 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAGAAACAGCAGAGAGCTGTGGCAGCGCCGAAAG 128
QY 129 GAAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTGCTCTCGGTGCTCTCG 188
Db 129 GAAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTGCTCTCGGTGCTCTCG 188
QY 189 GGCTGCGCGCCCGGCTCAGTACCATGGAAGCAGCGCTGCGCCCGCCACGACGCGCAGCAAT 248
Db 189 GGCTGCGCGCCCGGCTCAGTACCATGGAAGCAGCGCTGCGCCCGCCACGACGCGCAGCAAT 248
QY 249 TGCACGTAGTGTGCGGTGCTCAAGTTGCTCCAGAGCAGCGCTGCGCCCGCCCGGTTCTGGGTC 308
Db 249 TGCACGTAGTGTGCGGTGCTCAAGTTGCTCCAGAGCAGCGCTGCGCCCGCCCGGTTCTGGGTC 308
QY 309 AACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACCGCAACCTG 368
Db 309 AACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACCGCAACCTG 368
QY 369 GCGCGGAGAGACAGCGCTGTGCGCTCCGACCGCGGCGAGTCCCTTCATGATCAGCGGCATC 428


```

; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1173-449P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2160 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..2160
; OTHER INFORMATION: /label= cdna
; OTHER INFORMATION: /note= "cdna encoding human mu opiate receptor"
; US-08-188-275A-1

Query Match      98.2%; Score 2125; DB 3; Length 2160;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2160; Conservative 0; Mismatches 0; Indels 5; Gaps 3;

QY 1 GGAATTCGGCTATAGGACAGAGAGAAATCTCAGATGCTCAGTCTGGTCCCTCCGCTGA 60
DB 1 GGAATTCGGCTATAGGACAGAGAGAAATCTCAGATGCTCAGTCTGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTCTCAGCAGGAGCTGGTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC 120
DB 61 CGCTCTCTCTCTCAGCAGGAGCTGGTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC 120
QY 121 GCGAAAGGAAGCGGCTGAGGGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGTACCT 180
DB 121 GCGAAAGGAAGCGGCTGAGGGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGTACCT 180
QY 181 CGCAGACGGGTGCCCGCGCGCTCAGTACCAATGGAACAGCAGCGCTGCCCGCAGAACG 240
DB 181 CGCAGACGGGTGCCCGCGCGCTCAGTACCAATGGAACAGCAGCGCTGCCCGCAGAACG 240
QY 241 CAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGGTT 300
DB 241 CAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGGTT 300
QY 301 CCTGGTCAACTTGTCCCACTTAGATGGCAACTGTCGACCCATGCGGTCCGAAACCGCA 360
DB 301 CCTGGTCAACTTGTCCCACTTAGATGGCAACTGTCGACCCATGCGGTCCGAAACCGCA 360
QY 361 CCAACTGGGCGGAGAGACAGCTGTGCCCTCCGACCGGCGCAGTCCCTCCATGATCA 420
DB 361 CCAACTGGGCGGAGAGACAGCTGTGCCCTCCGACCGGCGCAGTCCCTCCATGATCA 417
QY 421 CGGCCATCAGATCATGCGGCTCTACTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
DB 418 CGGCCATCAGATCATGCGGCTCTACTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 477
QY 481 TCCTGCTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
DB 478 TCCTGCTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 537
QY 541 TTTTCAACCTTGTCTGGCAGATGCTTAGCCACCCAGTACCTGCTGCTGCTGCTGCTGCTGCT 600
DB 538 TTTTCAACCTTGTCTGGCAGATGCTTAGCCACCCAGTACCTGCTGCTGCTGCTGCTGCTGCT 597
QY 601 ATTACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAG 660
DB 598 ATTACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAG 657
QY 661 ATTACTATACATGTTTACCAGCATATTCACCTCTGACCATGAGTGTGTGATCGGATACA 720
DB 661 ATTACTATACATGTTTACCAGCATATTCACCTCTGACCATGAGTGTGTGATCGGATACA 720

```

```

DB 658 ATTACTATACATGTTTACCAGCATATTCACCTCTGACCATGAGTGTGTGATCGATACA 717
QY 721 TTGAGTCTGCCACCCCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCAAAATTA 780
DB 718 TTGAGTCTGCCACCCCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCAAAATTA 777
QY 781 TCAATGTCTGCAACTGGATCTCTCTTCAGGCAATGGTCTTCCTGTATGTTTCATGGCTA 840
DB 778 TCAATGTCTGCAACTGGATCTCTCTTCAGGCAATGGTCTTCCTGTATGTTTCATGGCTA 837
QY 841 CAACAAAATACAGCAAGGTTCCATAGATTTGTACACTAACATTTCTCTCATCCAACTGCT 900
DB 838 CAACAAAATACAGCAAGGTTCCATAGATTTGTACACTAACATTTCTCTCATCCAACTGCT 897
QY 901 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCCCTTCATTTATGCCAGTGCTCA 960
DB 898 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCCCTTCATTTATGCCAGTGCTCA 957
QY 961 TCATTACCGTGTGCTATGCACTGATGATCTTGGCGCTCAAGAGTGTCCGCATGCTCTCTG 1020
DB 958 TCATTACCGTGTGCTATGCACTGATGATCTTGGCGCTCAAGAGTGTCCGCATGCTCTCTG 1017
QY 1021 GCTCAAAAGAAAAGGACAGGAATCTTCAAGGATCACCAGGATGGTGTGGTGGTGG 1080
DB 1018 GCTCAAAAGAAAAGGACAGGAATCTTCAAGGATCACCAGGATGGTGTGGTGGTGG 1077
QY 1081 CTGTGTTTCATCTGCTGCTGCTCCCATTCACATTTAGCTCATATTAAGGCTTGGTTA 1140
DB 1078 CTGTGTTTCATCTGCTGCTGCTCCCATTCACATTTAGCTCATATTAAGGCTTGGTTA 1137
QY 1141 CAATCCCAAGAAACTACGTTCCAGACTGTTTCTGGCACTTCTGCAATGCTCTAGGTTACA 1200
DB 1138 CAATCCCAAGAAACTACGTTTCCAGACTGTTTCTGGCACTTCTGCAATGCTCTAGGTTACA 1197
QY 1201 CAAACAGCTGCTCAACCCAGTCTTTCATGATTTCTGGATGAAACCTTCAACAGGATGCT 1260
DB 1198 CAAACAGCTGCTCAACCCAGTCTTTCATGATTTCTGGATGAAACCTTCAACAGGATGCT 1257
QY 1261 TCAGAGAGTCTGTATCCCACTCTTCCAACTTTCAGCAACAAACCTCCACTCGAATTC 1320
DB 1258 TCAGAGAGTCTGTATCCCACTCTTCCAACTTTCAGCAACAAACCTCCACTCGAATTC 1317
QY 1321 GTCAAGAACACTAGAGACCAACCCCTCCAGGCCAATAAGTGTAGATAGAACTAATCATCAGC 1380
DB 1318 GTCAAGAACACTAGAGACCAACCCCTCCAGGCCAATAAGTGTAGATAGAACTAATCATCAGC 1377
QY 1381 TAGAAAACTCGAAGCAGAAACTGCTCGTTCGCTTAACAGGGTCTCATGCCATTCGGAC 1440
DB 1378 TAGAAAACTCGAAGCAGAAACTGCTCGTTCGCTTAACAGGGTCTCATGCCATTCGGAC 1437
QY 1441 CTTTCAACGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1500
DB 1438 CTTTCAACGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1497
QY 1501 AGGCTCTAATTTCTAGGAAAGTGCTTCTTTTAGGTCTATCCAACTCTTCTCTCTCTG 1560
DB 1498 AGGCTCTAATTTCTAGGAAAGTGCTTCTTTTAGGTCTATCCAACTCTTCTCTCTCTG 1557
QY 1561 CCACTCTGCTGCACTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAGGAAAG 1620
DB 1558 CCACTCTGCTGCACTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAGGAAAG 1617
QY 1621 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
DB 1618 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
QY 1681 GTGGTATGTAATTTGAAGTTCATATAAAAGGTGACCCCTTCTGTGTGTAGATTTTATTTT 1740
DB 1678 GTGGTATGTAATTTGAAGTTCATATAAAAGGTGACCCCTTCTGTGTGTAGATTTTATTTT 1737
QY 1741 CAAAGCAAAATATTTATGACCTCAACAAAGAAAGCACTCTTTGTTAAAGTTTCCCGTAGTA 1800
DB 1738 CAAAGCAAAATATTTATGACCTCAACAAAGAAAGCACTCTTTGTTAAAGTTTCCCGTAGTA 1797

```


Qy	909	AACTCGTAGAGATCTGTGTTTTTCATCTTCGCCCTTCATTATGCGAGTGCTCATCATTTACC	968
Db	932	AACTCGTAGAGATCTGTGTTTTTCATCTTCGCCCTTCATTATGCGAGTGCTCATCATTTACC	991
Qy	969	GTGTGCTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGCAATGCTCTCTGGCTCCAAA	1028
Db	992	GTGTGCTATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGCAATGCTCTCTGGCTCCAAA	1051
Qy	1029	GAAGAAGCAGGAATCTTCCAAGGATCACAGAGATGCTGTGGTGGTGGCTGTGTTC	1088
Db	1052	GAAGAAGCAGGAATCTTCCAAGGATCACAGAGATGCTGTGGTGGTGGCTGTGTTC	1111
Qy	1089	ATCGTCTGTGGACTCCCATTCACATTTACGTTCATCATTTAAAGCCTTGGTTACAATCCCA	1148
Db	1112	ATCGTCTGTGGACTCCCATTCACATTTACGTTCATCATTTAAAGCCTTGGTTACAATCCCA	1171
Qy	1149	GAAGTACGTTCCAGACTGTTCTTGGCACTTCTGCATTTGCTCTAGGTTACACAAACAGC	1208
Db	1172	GAAGTACGTTCCAGACTGTTCTTGGCACTTCTGCATTTGCTCTAGGTTACACAAACAGC	1231
Qy	1209	TGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACITTCAAAAGATGCTTCAGAGAG	1268
Db	1232	TGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACITTCAAAAGATGCTTCAGAGAG	1291
Qy	1269	TTCTGTATCCCAACCTCTTCCAACTTTGAGCAACAAAACCTCCACTCGAATTCGTCAAGAC	1328
Db	1292	TTCTGTATCCCAACCTCTTCCAACTTTGAGCAACAAAACCTCCACTCGAATTCGTCAAGAC	1351
Qy	1329	ACTAGAGACCAACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAAAAT	1388
Db	1352	ACTAGAGACCAACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAAAAT	1411
Qy	1389	CTGGAAGCAGAAACTGTCCGTTGCCCTAAACAGGGTCTCATGCCATTCAGACCTTCACCA	1448
Db	1412	CTGGAAGCAGAAACTGTCCGTTGCCCTAAACAGGGTCTCATGCCATTCAGACCTTCACCA	1471
Qy	1449	AGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTA	1508
Db	1472	AGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTA	1531
Qy	1509	ATTCTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCCTCTCTGGGCACCTCTG	1568
Db	1532	ATTCTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCCTCTCTGGGCACCTCTG	1591
Qy	1569	CTCTGCACATTAGAGG	1584
Db	1592	CTCTGCACATTAGAGG	1607

RESULT 8

RESULT 8
 US-09-826-509-544
 ; Sequence 544, Application US/09826509
 ; Patent No. 6806054
 ; GENERAL INFORMATION:
 ; APPLICANT: Lehmann-Bruinsma, Karin
 ; APPLICANT: Liaaw, Chen W.
 ; APPLICANT: Lin, I-Lin
 ; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
 ; TITLE OF INVENTION: Protein-Coupled Receptors
 ; FILE REFERENCE: AREN-207
 ; CURRENT APPLICATION NUMBER: US/09/826,509
 ; CURRENT FILING DATE: 2001-04-05
 ; PRIOR APPLICATION NUMBER: 60/195,747
 ; PRIOR FILING DATE: 2000-04-07
 ; PRIOR APPLICATION NUMBER: 09/170,496
 ; PRIOR FILING DATE: 1998-10-13
 ; NUMBER OF SEQ ID NOS: 589
 ; SOFTWARE: PatentIn Version 2.1
 ; SEQ ID NO 544
 ; LENGTH: 1203
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens

1233 TTTCTGGATGAAACTTCAAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAAAC 1292
1018 TTTCTGGATGAAACTTCAAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAAAC 1077
1293 ATTGAGCAACAAACTCCCACTCGAATTCGTTCAGAACTAGAGACCAACCCCTCCACGGCC 1352
1078 ATTGAGCAACAAACTCCCACTCGAATTCGTTCAGAACTAGAGACCAACCCCTCCACGGCC 1137
1353 AATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAACTGCTCCGTTG 1412
1138 AATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAACTGCTCCGTTG 1197
1413 CCCTAA 1418
1198 CCCTAA 1203

RESULT 9

US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR97/01282
; FILING DATE:
; APPLICATION NUMBER: FR 96.08810
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
US-09-214-904-1

Query Match 53.9%; Score 1166; DB 3; Length 2229;
Best Local Similarity 77.8%; Pred. No. 2.6e-289;
Matches 1543; Conservative 0; Mismatches 410; Indels 31; Gaps 10;

9 GGCATATAGGCAGAGGAGAAATGTGATGCTCAGTGTCTCGTCCCTCCGCTCAGCGCTCCTC 68
52 GGATACAGCAGAGGAGAAATATCGGAGCTCAG-AGTTCCATTCTGCTGCGCTCTTC 110
69 TCTGTCTCAGCAGGAGTGTCTGTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
111 TCTGGTTTCCACTAGGGCTTGTCTTGTGTAAGAAACTGACGAGGCTTAGGGCAGCTGTGAGA 170
128 GGAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGCTACCTCGCACAG 187
171 GGAAGAGGCTGGGGCGCTGGAAACCCGAAACACTCTTGAGTGCTCTCAGTTACAGCTACC 230
188 CGGTGCGCGCCGCGCGCTCAGTACCAATGGAACAGCGCTGCGCCCAACGAAACGCGCAGAA 247
231 GAGTCCGACAGCAAGCATTCAGAACCAATGGAACAGCAGCGCGCGCGCGCGCGCAATCAGCGA 290
248 TTGACTGATGCTTGGCGGTACTCAAGTTGCTCCCGACGACCCGCGGTTCTCTGGGT 307

291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGGTCCCAGCA-----CTGGCTCTGGCT 344
308 CAATTTGTCCCACTTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAACCGCACCAACT 367
345 CAATTTGTCCCACTTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAACCGCACCGGCT 404
368 GGGGGGAGAGACAGCCTGTGCTCCGACCGGGGGAGTCCCTCCATGATACACGGCCAT 427
405 TGGCGGAGAGCAGCCTGTGCTCCGACCGGGGGAGTCCCTCCATGATACACGGCCAT 461
428 CACGATCATGCGCTCTACTCATGCTGTGCTGGTGGGCTCTTCGGAACCTCTCTGCT 487
462 CACCATCATGCGCTCTACTCATGCTGTGCTGGGCTCTTCCTGGAACCTCTCTGCT 521
488 CATGTATGTGATTTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAA 547
522 CATGTATGTGATTTGTTCAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAA 581
548 CTTGCTCTGGCAGATGCTTTAGCCACCAAGTACCTGCTCCCTTCCAGAGTGTGAATTTACCT 607
582 CTTGCTCTGGCAGATGCTTTAGCCACCTAGCAGGCTGCTTTCAGAGTGTGAATTTACCT 641
608 AATGGAAACATGGCCATTTGGAAACATCTCTGCAAGATCGTGATCTCAATAGACTACTA 667
642 GATGGAAACGTTGGCCCTTTGGAAACATCTCTGCAAGATCGTGATCTCAATAGACTACTA 701
668 TAACATGTTCCACGACATATTCACCTCTGCAACATGATGTTGATCGATACATTTGCACT 727
702 CAACATGTTCCACGACATATTCACCTCTGCAACATGATGTTGATCGATACATTTGCACT 761
728 CTGCCACCTGTCAAGGCTTTAGATTTCCGTAATCCCGGAAATGCCAAATTTATCAATGT 787
762 CTGCCACCGGTCGAAGGCTTTGATTTCCGTAATCCCGGAAATGCCAAATTTATCAATGT 821
788 CTGCAACTGGATCTCTCTTACGCAATTTGGTCTCTGTAATGTTTCATGCTTACACAAA 847
822 CTGCAACTGGATCTCTCTTACGCAATTTGGTCTCTGTAATGTTTCATGCTTACACAAA 891
848 ATACAGGCAAGGTTCCATGATTTGACACTACATTTCTCTCATCAACCTGGTACTGGGA 907
882 ATACAGGCAAGGTTCCATGATTTGACACTACATTTCTCTCATCAACCTGGTACTGGGA 941
908 AAACCTCTGTAAGATCTGTGTTTTCATCTTCCCTTTCAATTTGCCAGTGTCTCATCAATAC 967
942 GAACCTCTCAAAATCTGTGCTTCTCATCTTCCCTTTCAATGCTGCGGTCTCTCATCAAC 1001
968 CGTGTCTATGCACTGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAA 1027
1002 TGTGTGTTATGACTGATCTTACGACTCAAGAGTGTCCGATGCTCTGCGGCTCCAA 1061
1028 AGAAAAGGACAGAAATCTTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGTGGTGGT 1087
1062 AGAAAAGGACAGAAATCTTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGTGGTGGT 1121
1088 CATGCTCTGCTGACTCCCAATTCACATTTACGTCATCAATTAAGGCTTTGGTTACAATCCC 1147
1122 TATGTGCTGCTGAGCCCCCATCCACATCTATGTCATCATCAAGCACTGATACGATTC 1181
1148 AGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCACTGCTCTAGGTTAGCAACACAG 1207
1182 AGAAACCACTTTCCAGACTGTTTCTTGGCACTTCTGCACTGCTCTAGGTTAGCAACACAG 1241
1208 CTGCTCAACCCAGTCTTTTATGCAATTTCTGATGAAACTTCAACAGATGCTTTCAGAGA 1267
1242 CTGCTCAACCCAGTCTTTTATGCAATTTCTGATGAAACTTCAACAGATGCTTTCAGAGA 1301
1268 GTTCTGATCCCAACTCTTCCAAATTCGAAGCAACAAACTTCCACTCGAATTCGTTCAGAA 1327
1302 GTTCTGATCCCAACTCTTCCCAATTCGAAGCAACAAACTTCCACTCGAATTCGTTCAGAA 1361
1328 CACTAGAGACCAACCCCTTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTAGAAA 1387

Db 1018 TTCTGGATGAAACTTCAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAC 1077
Qy 1293 ATTGAGCAACAAACTCCACTCGAATTCGTGAGAACACTAGAGACACCCCTCCAGGGCC 1352
Db 1078 ATTGAGCAACAAACTCCACTCGAATTCGTGAGAACACTAGAGACACCCCTCCAGGGCC 1137
Qy 1353 AATACAGTGGATAGAACTAATCATCAGCTAGBA 1385
Db 1138 AATACAGTGGATAGAACTAATCATCAGCTAGTA 1170

RESULT 11

US-08-387-707-15
; Sequence 15, Application US/08387707
; Patent No. 6265563
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/387,707
; FILING DATE: 10-SEP-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-387-707-15

Query Match 52.5%; Score 1135.6; DB 3; Length 1981;
Best Local Similarity 77.4%; Pred. No. 1.6e-281;
Matches 1512; Conservative 0; Mismatches 410; Indels 31; Gaps 10;
Qy 9 GGCATATAGGAGGAGGAATGTGAGATGCTCAGTCTGGTCCGTCCTCCGCTCGAGCTCCTC 68
Db 52 GGATACAAGCAGAGGAGGAATATCGACGCTCAG-ACGTTCCATTCTGCTCGCGCTCTTC 110
Qy 69 TCTGTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGGAAA 127
Db 111 TCTGGTTCCATAGGGCTTGTCTTGTGTAAGAACTGACGAGGCTAGGGCAGCTGTGAGA 170
Qy 128 GGAAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTGCTGTACCTCGCACAG 187
Db 171 GGAAGAGCTTGGGGCGCTTGGAAACCGAAACCACTTGTAGTGTCTCAGTTACAGNCTACC 230
Qy 188 CGGTGCCCGCGCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCGCCACGAAACCGCAGCAA 247
Db 231 GAGTCCGCGAGGAGCAATTCAGAACCATGGACAGCAGCGCGCGCCAGGGAACATCAGCGA 290
Qy 248 TTGACATGATGCTTGGCGTACTCAAGTTGCTTCCCGAGCACCCAGCCCCCGTTCTCGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGCTCCCGACGCA-----CCTGGCTCTCTGGCT 344
Qy 308 CAACTTGTCCCACTTTAGATGGCAACCTGTCCGACCATCTCGGTTCGAAACCGCACCAACCT 367
Db 345 CAACTTGTCCCACTTTAGATGGAAACAGTTCGACCCATTCGGGTCTTAAACCGCGGCT 404
Qy 368 GGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGCAGTCCCTCCATGATCAGCGCCAT 427
Db 405 TGGCGGGAACGACAGCCTGTGCCCTCAGAC---CGGACGCCCTTCCATGGTCACAGCCAT 461
Qy 428 CACGATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACTTCTCTGGT 487
Db 462 CACCATCATGGCCCTCTATTCTATCGTGTGTAGTGGGCCCTCTTTGGAACTTCTCTGGT 521
Qy 488 CATGTATGTGATTGTTCAGATACCAAGATGAAGACTGCCACCAACATCTACATTTTCAA 547
Db 522 CATGTATGTGATTGTGAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAA 581
Qy 548 CTTTCTCTGGCAGATGCCCTTAGCCACCAAGTACCCCTGCCCTTCCAGAGTGTGAATACCT 607
Db 582 CTTTCTCTGGCAGATGCCCTTAGCCACTAGCACGCTGCCCTTTCAGAGTGTAACTACCT 641
Qy 608 AATGGAAATGCGCATTTGGAAACATCTCTTTGCAAGTAGTGAATCTCCATAGATTACTA 667
Db 642 GATGGAAACGTGGCCCTTTGGAAACATCTCTGCAAGATCGTGAATCTCAATAGACTACTA 701
Qy 668 TAAACATGTTACAGCAGATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTCAGT 727
Db 702 CAAACATGTTACACAGTATCTTCAACCTCTGCACCATGAGTGTAGACCCGCTACATTCGCCGT 761
Qy 728 CTGCGACCCCTGTCAAGGCCCTTAGATTTCCGTACTCTCCCGAAATGCCAAAATTTATCAATGT 787
Db 762 CTGCGACCCCGTCAAGGCCCTCGATTTCTGATACCCCGGAAATGCCAAAATTTGTCATGT 821
Qy 788 CTGCAACTGGATCCTCTCTTACGCCATTTGCTTCTGTAATGTTTTCATGGCTACACAAA 847
Db 822 CTGCAACTGGATCCTCTCTTCTGCCATTTGCTGCGGTAATGTTTTCATGGCAACCAAAA 881
Qy 848 ATACAGGCAAGGTTCCATAGATTGACATACATTTCTCTCATCCCAACCTGGTACTGGGA 907
Db 882 ATACAGGCAAGGTTCCATAGATTGACACCTCTCATCTTCTCATCCACATGGTACTGGGA 941
Qy 908 AAACCTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTTCATTATGCCAGTGTCTCATATTAC 967
Db 942 GAACTGTCTCAAAATCTGTCTTCTCATCTTCCGCTTTCATGCGCGGCTCATCATCAC 1001
Qy 968 CGTGTCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAA 1027
Db 1002 TGTGTGTTATGGACTGATGATCTTACAGCTCAAGAGTGTCCGATGCTGTGCGGCTCCAA 1061
Qy 1028 AGAAAGGACAGGAATCTTGAAGGATCACCAGGATGGTGGTGGTGGTGGTGGTGGTGGTGGT 1087
Db 1062 AGAAAGGACAGGAATCTGCGAGGATCACCAGGATGGTGGTGGTGGTGGTGGTGGTGGTGGT 1121
Qy 1088 CATCGTCTCTGAGTCCCAATTCACATTTACGTTCATTAAGAGCTTGGTTACAATPCC 1147
Db 1122 TATGTCTCTGAGCCCCCATCCACATCTATGTCTCATCAAGACATGATCAGATTCC 1181
Qy 1148 AGAAATACAGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTGTAGTTTACAAACAG 1207
Db 1182 AGAAACCACTTTCACAGACTGTTTCTGCGCACTTCTGCAATGCTGGTGGTGGTGGTGGTGGT 1241
Qy 1208 CTGCTCAACCCAGTCTTTTATGTCATTTCTGGATGAAACTTCAACAGTGTCTTCAGAGA 1267
Db 1242 CTGCTGAAACCCAGTCTTTTATGTCGTTCTGCGTGAAGAACTTCAAAACGATGTTTATAGA 1301
Qy 1268 GTTCTGTATCCCAACCTTTCCAACATTCGAGCAACAAACTCCACTCGAATTCGTTCAGAA 1327
Db 1302 GTTCTGCATCCCAACTTCTCTCAAAATCGAACAGCAAACTCTGCTCGAATTCGTTCAAA 1361
Qy 1328 CACTAGAGACCAACCCCTCCACCGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAA 1387
Db 1362 CACTAGGGAACACCCCTCCACCGGCTAATACAGTGGATCGAACTTAACCCAGGCTAGAAA 1421

1388 TCTGGAAGCAGAACTGCTCCGTTGCCCTTAACAGGGTCTCATGCAATTCACGACCTTCACC 1447
1422 TCTGGAAGCAGAACTGCTCCGTTGCCCTTAACAGGGTCTCATGCAATTCACGACCTTCGCT 1481
1448 AAGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCT 1507
1482 AAACCTTAGAGGCTGCCACTACTTGGAAATCAGGTTGCTGTGAGGTTTGTGGAGGCTCT 1541
1508 AATTCTTAGAAGTGCCTACTTTTAGGTCAATCAACCTCTTCTCTCTCTGCGCACTCT 1567
1542 GGTTCCTCGAAAGCATCTGATCTGATCAATTCAAAGTCAATTCCTCTCTGCTATTC- 1600
1568 GCTCGACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGAAGGAAGGAATATA 1627
1601 ACGCTACACGTCAGAGACA---CTCAGACTGTGTCAAGCATCAGAGGAAGAGACTGCA 1657
1628 CCACACCGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAACCCATCGTGGT 1685
1658 GGCCACTACTGAATCCAGCTCATGTACAGAAACATCCAAATGACCAACATCTCTGTGGT 1717
1686 ATGTGAATTGAAGTCATCATAAAGGTGACCCCTTCTGTCTGT-AAGATTTTATTTTCAAG 1744
1718 ATGTGAATTGTGATCAACATAGAAGGTGACCCCTTCCCTATGTGGAAATTTTAAATTTCAAG 1777
1745 CAATATTTATGACTCTCAACAGGAAGAACCA---TCTTTTGTAAAGTTCACCGTAGTA 1800
1778 GAAATACTTTATGATCTCATCAAGGGAAGAAATAGATGTCACTGTGTAAATTCACGTAGTG 1837
1801 ACACATAAGTAAATGCTTACCTCTGATCAAGACACCTTTGAATGGAAGTCCGAGTCTTTT 1860
1838 ATGCATAAGGAAGCTACCTCTGACCTCTAGCCAGTCAACCTCTATGGAAGTTCCA 1897
1861 TAGTGTTTTGAAGGGAATGAATCCATTTATTTTATTTAGACTTTTAACTTCACTTAA 1920
1898 TAGGGAATATGTAGGGAA-----AATGTTGCTTCCAAATTTAAATTTTACCTTTA 1948
1921 AATTAGCATCTGGCTAAGGCATCATTTTCACCT 1953
1949 TGTATAGCTAGTTTAAAGACATCAGGGGCACT 1981

RESULT 12

US-08-405-271A-15
; Sequence 15, Application US/08405271A
; Patent No. 6432652
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESS: MORRISON & FOERSTER
; STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/405,271A
; FILING DATE: 14-MAR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.22
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500

; TELEFAX: (202) 887-0763
; TELEX: 90-4030 MRSNFOERSWSH
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-405-271A-15

Query Match 52.5%; Score 1135.6; DB 3; Length 1981;
Best Local Similarity 77.4%; Pred. No. 1.6e-281;
Matches 1512; Conservative 0; Mismatches 410; Indels 31; Gaps 10;

QY	9	GGCTATATAGGAGGAGGAATGTGATGCTCCGTCAGCTCCGTCCTCCGTCCTGACGCTCTCTC	68
DB	52	GGATACAGGAGGAGGAATATCGGACGCTCAG-ACGTTCCATTTCTGCTGCCGCTCTTC	110
QY	69	TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGGAAA	127
DB	111	TCTGGTTCCACTAGGCTTGTCTTGTAAAGAACTGACGAGGCTTAGGGCAGCTGTGAGA	170
QY	128	GGAAGCGGCTGAGCGCTGTGAACCCGAAAGTCTCGTGTCTCTGCTACCTCGCACAG	187
DB	171	GGAAGAGGCTGGGCGGCTGGAACCCGAAACACTCTTGAGTGTCTCTCAGTTACAGNCTACC	230
QY	188	CGGTGCCGCGCCGCTGCTAGTACCATGGACAGCAGCGCTGCCCCACGAAACGCGCAAA	247
DB	231	GAGTCCGAGAGGAGCATTCAGAACATGGACAGCAGCGCGCGCCGAGGGAACATCAGCGA	290
QY	248	TTGCACCTGATGCTTGGCGTACTCAAGTTGCTCCCCAGCACCCAGCCCGGTTCTTGCGT	307
DB	291	CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGCTCTCCAGCA-----CTGGCTCTGGCT	344
QY	308	CAACTGTGCCACTTAGATGGCAACCTGTCCGACCGATCGGTCGGACCCGACCAACCT	367
DB	345	CAACTGTGCCACGTTGATGGAACCCAGTCCGACCCATCGGGTCTCTAACCCGAGGGGCT	404
QY	368	GGGCGGAGAGACAGCGCTGTGCCCTCCGACCGGGGCGAGTCCCTCCATGATCAGCGGCAT	427
DB	405	TGGCGGGAACGACAGCCTGTGCCCTCAGAC---CGGCAGCCCTTCCATGGTCAAGCCT	461
QY	428	CACGATCATGGCCCTTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACCTCTCTGGT	487
DB	462	CACCATCATGGCCCTTACTTCTATCGTGTGTGTAGTGGGCTCTTTTGGAAACTTCTCTGGT	521
QY	488	CATGTATGTGATGTCTAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTCAA	547
DB	522	CATGTATGTGATTTGAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTCAA	581
QY	548	CCTTGCTCTGGCAGATGCCCTTAGCCACGATACCCCTTCCAGAGTGTGAATTTACCT	607
DB	582	CCTTGCTCTGGCAGATGCCCTTAGCCACGATAGCACGCTGCCCTTTCAGAGTGTAACTACT	641
QY	608	AATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTATCTCCATAGATTACTA	667
DB	642	GATGGGAACGTTGGCCCTTTGGAAACATCTCTGCAAGATCGTGTATCTCAATAGACTACTA	701
QY	668	TAAATGTTTACAGAGCATATTCACCTCTGCACCATGATGTTGATCGATACATTTGAGT	727
DB	702	CAACATGTTACACGATATCTTACCCCTCTGCACCATGATGTTAGACCGCTACATTTGCCGT	761
QY	728	CTGCCACCTGTCAAGGCTTTAGATTTCCGTFACCTCCCGAAATGCAAAATTTATCAATGT	787
DB	762	CTGCCACCGGTCAAGGCTTGATTTCCGTFACCCCGAAATGCAAAATTTGTCATGT	821
QY	788	CTGCAACTGGATCCTCTCTTCCAGCCATTTGGTCTTCTGTAAATGTTTCAATGCTACAA	847
DB	822	CTGCAACTGGATCCTCTCTTCTGCAATTTGGTCTGCGCGTAATGTTTCATGGCAACCA	881
QY	848	ATACAGGCAAGGTTCCATAGTTGTACACTAACTTCTCTCATCCACTCGTGTGGA	907
DB	882	ATACAGGCAAGGTTCCATAGTTGTACACTTCTCTCTCATCCCATCGTGTGGA	941

QY 908 AAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTCTCATCATAC 967
DB 942 GAACTGCTCAAAATCTGTGTTTCATCTTCGCCCTTCATCATGCCGGCTCATCATAC 1001
QY 968 CGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAA 1027
DB 1002 TGTGTGTTATGACTGATGATCTTACAGCTCAAGAGTGTCCGATGCTCTGGCTCCAA 1061
QY 1028 AGAAAGGACAGAAATCTTTCGAAGGATCAACAGATGTTGCTGGTGGTGGTGGTGGT 1087
DB 1062 AGAAAGGACAGAACTCGCAGGATCACCGGATGTTGCTGGTGGTGGTGGTGGTGGT 1121
QY 1088 CATGCTCTGCTGACTCCCATTCACATTTACGTCATCATTAAGCCTTGGTTACATCCC 1147
DB 1122 TATTGTCTGTGGACCCCATCCACATCTATGTCTATCAAGCACTCATCAGATCCC 1181
QY 1148 AGAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGTGTACACAAACAG 1207
DB 1182 AGAAACCACTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGTGTACACAAACAG 1241
QY 1208 CTGCTCAACCCAGTCTTATGATTTCTGATGAAATCTTCAAGATGCTTTCAGAGA 1267
DB 1242 CTGCTCAACCCAGTCTTATGCTTCTGATGAAATCTTCAAGATGCTTTCAGAGA 1301
QY 1268 GTTCTGATCCCACTCTTCCACATTTGAGCAAACTCCACTCGAATTCGTCAGAA 1327
DB 1302 GTTCTGATCCCACTCTTCCACATTTGAGCAAACTCCACTCGAATTCGTCAGAA 1361
QY 1328 CACTAGAGACCCCTCCAGCCCAATACAGTGAAGATACTAATCATCAGCTAGAAA 1387
DB 1362 CACTAGGGAACCCCTCCAGGCTAATACAGTGAAGATACTAATCATCAGCTAGAAA 1421
QY 1388 TCTGGAAGCAGAAATCTGCTCGGTTCCCTAAAGGCTCTCATGCCATTCGACCTTCC 1447
DB 1422 TCTGGAAGCAGAAATCTGCTCGGTTCCCTAAAGGCTCTCATGCCATTCGACCTTCC 1481
QY 1448 AGCTTAGAGCCACCATGATGTGGAAGAGTGTCTTCAAGATGCTAGAGGCTCT 1507
DB 1482 AAACCTAGAGGCTGCCATCTACTTGAATCAGGTTGCTGTGAGGTTTGTGGAGGCTCT 1541
QY 1508 AATCTCTAGGAAGTGCCTACTTTTAGGTCTCAACCTCTTCTCTCTGCGCACTCT 1567
DB 1542 GGTTCCTGGAAGCATCTGATCTCGATCATTTCAAGTCACTTCTCTCTGCTATTC- 1600
QY 1568 GCTCTGCACATTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGAAGGAAGGAATATA 1627
DB 1601 ACGCTACACGTACAGACA---CTCAGACTGTGTCAAGCACTCAGAAGGAAGAGACTGCA 1657
QY 1628 CCACACGAGGAGTCCAGTT--TGTGACAGACACCCAGTGGACCAAAACCCATCGTGT 1685
DB 1658 GGCCCACTACTGAATCCAGCTCATGTATCAGAAACATCCAATGGACCAATCTCTGTGT 1717
QY 1686 ATGTGAATGAAGTCAATCAAAAGGTGACCTTCTGTCTGT--AAGATTTTATTTTCAAG 1744
DB 1718 ATGTGAATTTGTGATCAACATAGAGGTGACCTTCCCTATGTGGAATTTTAAATTTCAAG 1777
QY 1745 CAAATATTTATGACCTCAACAAAGAAAGAACCA---TCTTTTGTGTTAAGTTTCAAGTGA 1800
DB 1778 GAAATACTTATGATCTCATCAAGGGAATAATAGATGTCACTTGTAAATTTCACTGTAGTG 1837
QY 1801 ACACATAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTT 1860
DB 1838 ATGCATAAAGGAAGGATCTCTGACCTCTAGCCCTAGCCCATGACCTCTATGGAAGTTCCA 1897
QY 1861 TAGTGTGTTTTCAGGGAATGAATCCATTTATTTATGAGCTTTTAACTTCAACTTAA 1920
DB 1898 TAGGGAATGTGAGGGA-----AATGTGCTTCCAAATTAATTTTACCTTTA 1948
QY 1921 AATTAGCATCTGGCTAAGGCATCAATTTTACCT 1953
DB 1949 TGTATAGTCTAGTTAAGACATCAGGGGCATCT 1981

RESULT 13
US-08-430-286A-1
; Sequence 1, Application US/08430286A
; Patent No. 6225080
; GENERAL INFORMATION:
; APPLICANT: Uhl, George R.
; APPLICANT: Eppler, C. Mark
; APPLICANT: Wang, Jai-Bel
; TITLE OF INVENTION: Mu-Subtype Opioid Receptor
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby PC
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/430,286A
; FILING DATE: 28-APR-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Robinson, Joseph R.
; REGISTRATION NUMBER: 33,448
; REFERENCE/DOCKET NUMBER: 0646/1A843-US5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-527-7700
; TELEFAX: 212-753-6237
; TELEX: 236687
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2135 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: Rattus rattus
; IMMEDIATE SOURCE:
; CLONE: mu receptor cDNA
US-08-430-286A-1
Query Match 51.7%; Score 1118.8; DB 3; Length 2135;
Best Local Similarity 78.2%; Pred. No. 3.4e-277;
Matches 1458; Conservative 0; Mismatches 367; Indels 39; Gaps 8;
QY 190 GTGCCGCCGCCGCGTCACTGACATGACAGAGGCTGCCGCCACGACGCGCAATTT 249
DB 8 GTCCGACGAGCGCTTTCAGACCATGACAGAGCAGCGCCGCGGAAACACGAGGACT 67
QY 250 GCACTGATGCTTGGCGTACTCAAGTGTCTCCCGACGCCAGCCCGCGCTTCTGGGTCA 309
DB 68 GCTCAGACCCCTTAGCTCAGGCAAGTGTCTCCCGACGAC-----CTGGCTCTGGCTCA 121
QY 310 ACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGACCAACCTGG 369
DB 122 ACTTGTCCCACTGTGATGGCAACCATGTCGATCCATGCGGTCTGAACCGCACCGGGCTTG 181
QY 370 GCGGAGAGACAGCTGTGCTCCCGACCGGGGCGAGTCCCTCCATGATCAGGCGCATCA 429
DB 182 GCGGGAACACAGACCTGTGCTCCCTCAGAC---CGGACGCGCTTCCATGGTTCACAGCATTA 238
QY 430 CCATCATGCGCCCTTACTTCCATGCTGTGGGTCTTTCGAAACTTCTCTGGTCA 489
DB 239 CCATCATGCGCCCTTACTTCTATGCTGTGTGTGTGGGCTCTTTCGAAACTTCTCTGGTCA 298
QY 490 TGTATGTGATTTGTGATACACCAAGATGAAGACTGCCACCAACATCTTACATTTTCAACC 549

Db 299 TGTATGTGATGTTGAAGATACACCAAAATGAAGACTGCCACCAATCTACATTTTCAACC 358
Qy 550 TTGCTCTGGCAGATGCTTACGACCAAGTACCTGGCCCTTCCAGAGTGTGAATTAACCTAA 609
Db 359 TTGCTCTGGCAGAGCCCTTAGCGACCAAGTACACTGCCCTTTTCAGAGTGTCAACTACCTGA 418
Qy 610 TGGGAACATGCCATTTGGGAACCACTCTTTCGACAGATAGTATCTCCATAGATTAATATA 669
Db 419 TGGGAACATGCCCTTTCGGAACCACTCTCTGCAAGATCGTATCTCAATAGATTAATATA 478
Qy 670 ACATGTTTACACAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACATATTCAGCTCT 729
Db 479 ACATGTTTACACAGCATATTTACCCCTCTGCACCATGAGCGTGCACCGCTACATTCGTCTCT 538
Qy 730 GCCACCTGTTCAAGCCCTTAGATTTTCGTAATCTCCCGAAATGCCAAATTAATATCAATGTCT 789
Db 539 GCCACCCAGTCAAAAGCCCTGGATTTCCGTACCCCGAAATGCCAAATCTGCAACGTCT 598
Qy 790 GCAACTGGATCCTCTCTTACGCCATTTGGTCTTCCGTGAATGTTTATGCTGCTACACAAAT 849
Db 599 GCAACTGGATCCTCTCTTCTGCCATTCGCTCTGCGCTGTAAATGTTTATGGAACCAACAAAT 658
Qy 850 ACAGCAAGGTTCCATAGATTTGACATACTCAATCTCTCATCCAACTGGTACTGGGAAA 909
Db 659 ACAGCGGGGTCATAGATTTGCAACCTTCAAGTTCTCCACCAACCTGGTACTGGGAGA 718
Qy 910 ACCTGCTGAAGATCTGTGTTTTCATCTTTCGCTTCAATTAATGCGAGTGTCTATATACCG 969
Db 719 ACCTGCTCAAAATCTGTGTTTATCTTCTTCTGCTTTCATCATGCGGCTCTCATCATCACTG 778
Qy 970 TGTGCTATGGATGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 1029
Db 779 TGTGTTACGGCTGATGATCTTACACTCAAGAGCGTTTCGATGCTATCGGGCTCCAAAG 838
Qy 1030 AAAAGGACAGGAATCTTCCAGAGGATCACAGGATGGTCTGGTGGTGGTCTGTGTCA 1089
Db 839 AAAAGGACAGGAATCTTCCGCGAGGATCACCCGAGTGGTCTGGTGGTGGTGTATTA 898
Qy 1090 TCGTCTGCTGGAATCCCAATCACATTTACGTATCATCAATTAAGCCCTGGTTACAATCCAG 1149
Db 899 TCGTCTGCTGAGCCCAATCCATCTACGTATCATCAAGCGCTGATCAAGATTCAG 958
Qy 1150 AAATACGTTCCAGACTGTTTCTGGCACTTCTGCAATGCTCTAGTTTACACAAACAGCT 1209
Db 959 AAACACATTTACAGACCGTTTCTGGCACTTCTGCAATGCTTGGTTTACACGACAGCT 1018
Qy 1210 GCCTCAACCCAGTCTTTATGATTTCTGGATGAAACTTCAACGATGCTTTCAGAGAGT 1269
Db 1019 GCCTGAATCCAGTTCTTTACGCTTCTTGGATGAATACTTCAAGCGATGCTTTCAGAGAGT 1078
Qy 1270 TCTGTATCCCAACCTTTTCCAAATGAGCAACAAACTCCACTCGAATTCGTGAGAAACA 1329
Db 1079 TCTGCATCCCAACCTTCGTCAGATCGAACAGCAAAACTCCACTCGAGTCCGTGAGAAACA 1138
Qy 1330 CTAGAGACCAACCTTCAGCGCAATACAGTGGATGAGAACTAATCATCAGCTAGAAATC 1389
Db 1139 CTAGGGAAATCCCTTCCAGCGCTAATACAGTGGATCGAACTAACCAACAGCTAGAAATC 1198
Qy 1390 TGGAGACAGAACTGCTCGTTTGGCTTAAACAGGGTCTCATGCGATTCGACCTTCCACCA 1449
Db 1199 TGGAGCAGAACTGCTCTCATTTGCCCTTAACTGGGTCTCACCATTCAGACCTTCGCTAA 1258
Qy 1450 GCTTAGAAGCCCACTATGATGAGGAGAGGTTGCTTCAAGAAATGTTAGAGGCTCTAA 1509
Db 1259 GCTTAGAGCCGCTTCTAGCTGGAATCAGGTTGCTGTGTCAGGGTGTGGGAGGCTCTGG 1318
Qy 1510 TTCTCTAGAAAGTGCCTACTTTTAGTTCATCCCAACCTCTTCTCTCTGCGCACTCTGC 1569
Db 1319 TTTCTCTGAGAAA---CCATCTGATCCTGCAATTCAAAGTCATTCCTCTCTGCTGCTTCC 1375
Qy 1570 TCTGCATTTAGAGGACAGCCAAAGTAAGTGGAGCATTTTGGAGGAAAGGAATATACC 1629

Db 1376 TCTGCACATGAGAGAT---GCTCAGACTGTATCAAGTACTCAGAAAGAGAGACTACCG 1432
Qy 1630 ACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGA-----ACCAAAACCCA 1678
Db 1433 ACATCTCTGAATCCAGCTCATGTACAGAACCATCTGAAACACCCAGTGGACCAATGCT 1492
Qy 1679 TCGTGGTATGTGAATTTGAAGTGCATCATAAAAGGTGACCCCTTCTCTGTGAAGATTTT--A 1736
Db 1493 CTGTGGTATGTGAATTTTCGATCATCATAGAAGGTGACCCCTCTCTATGTAGAAATTTTAT 1552
Qy 1737 TTTTCAAGCAAAATATTTATGACCTCAACCAAGAAAGA-ACCATCTTTTGTGTTAAGTTCACCG 1795
Db 1553 TTTTCAAGCAAAATATTTATGACCTCATCAAGAAATAATGTCACTTGTGTTAAATTCACGT 1612
Qy 1796 TAGTAAACATTAAGTAAATGCTTACCTCTGATCAAGACACTTGAATGGAAGTCCGAGT 1855
Db 1613 TAGTGATACATAAAGTAAATGCTTACCTCTGACCTCTGACCC-----AGTCACCTT 1662
Qy 1856 CTTTTTAGTGTGTTTTTTCGAAGGGAATGAATCATTTATTTCTATTTTAGACTTTTAACTTCAA 1915
Db 1663 CTGTAGAGAGTTCAGTCCCTTTTGTGATGGAATACATCAITTTCCAACCTTAAACCTTTCAC 1722
Qy 1916 CTTAAAAATTAGCATCTGGCTAAGGCATCATTTTCCACTTCATTTCTGGTTTGTATGTT 1975
Db 1723 CTTGAAGTTATGGTCTAGTTAAGACATCAGGGGCACCTCCGTTTCTTGGTTTGTATGTT 1782
Qy 1976 TTAATAAAATTAACATCTCTTTTCATCTAGCTCCCATATTTGCAAGGGAAGAGATAGCATG 2035
Db 1783 TTGAAGAAGACGACATCTTCTCTTAGCTGTGTGTTGAAATGAAAGGAGATTTGAAGC 1842
Qy 2036 AAAG 2039
Db 1843 ACAG 1846

RESULT 14

US-08-889-108-1
; Sequence 1, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid

; STRANDEDNESS: single		
; TOPOLOGY: linear		
; MOLECULE TYPE: DNA (cdna)		
; FEATURE:		
; NAME/KEY: CDS		
; LOCATION: 214..1410		
; US-08-889-108-1		
Query Match		50.2%; Score 1087.6; DB 3; Length 1618;
Best Local Similarity		83.2%; Pred. No. 3.2e-269;
Matches 1312; Conservative		0; Mismatches 269; Indels 15; Gaps 6;
QY	9 GGCATAGGCAGAGGAGATGTGATGCTCAGCTCGGTCCCTCGCGCTGACGCTCCTC	68
DB	11 GGCATACAGCAGAGGAGATATCAGACGCTCAG-AGTTCCCTTTCTGCTCGCGCTCTTC	69
QY	69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGGAG-CTGTGGCAGCGCGAAA	127
DB	70 TCTGGTTCCACTAGGCGCTGGTCCATGTAAAGATCTGACGGAGCCTAGGCGAGCTGTGAGA	129
QY	128 GGAAGCGGTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACCTCGCACAG	187
DB	130 GGAAGAGGCTGGGGCGGTGGAACCGGAAAGTCTGAGTGTCTCAGTTTACAGCCTAC-C	188
QY	188 CGGTGCGCGCGCGCGCTCAGTACCATGACAGCAGCGCTGCCCGCCAGCAACCGCAGCAA	247
DB	189 TAGTCCGCGAGCAGCGCTTTCAGACCATGACAGCAGCAGCGCGCCAGGGAACACGACGA	248
QY	248 TTGCACTGATGCTTGGCGCTACTCAAGTTGCTCCCGAGCACCGCGCCCGGTTCTTGGGT	307
DB	249 CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCGCAGCA-----CCTGGCTCTTGGCT	302
QY	308 CAATTGTGCCACTTAGATGGCAACCTGTCCGACCATGCGGTCCGAAACCGCACCAACT	367
DB	303 CAATTGTGCCACTTAGATGGCAACCAAGTCCGATCCATCGGTCTGAACCGCACCGGGCT	362
QY	368 GGGCGGAGAGCAGCGCTGCGCCTCCGACCGGCGCAGTCCCTCATGATCAGCGCCAT	427
DB	363 TGGCGGGAACGACAGCGCTGTGCCCTCAGAC---CGCAGCCCTTCCATGGTACAGCCAT	419
QY	428 CAGGATCATGGCCCTCTACTCCATCGTGTGCGGTGGGGCTCTTCGGAAACTTCTGTGT	487
DB	420 TACCATCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCTCTTCCGAAACTTCTGTGT	479
QY	488 CATGTATGTATGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAA	547
DB	480 CATGTATGTATGTAAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAA	539
QY	548 CCTTGCTCTGGCAGATGCCCTTAGCCACCAGTACCCTGCCCTCCAGAGTGTGAATTACCT	607
DB	540 CCTTGCTCTGGCAGATGCCCTTAGCCACCAGTACCCTGCCCTTTCAGAGTGTCAATACCT	599
QY	608 AATGGGAACATGGCCATTTGGAAACCATCTCTTTCGAAGATAGTGTATCCATGATTACTA	667
DB	600 GATGGGNAATGGCCCTTCGGAACCATCTCTCGAAGATGCTGATCTCAATAGATTACTA	659
QY	668 TAAATGTTTCCACAGCATATTCACCTCTGCACCATGAGTGTGATGATGATGATTCAGT	727
DB	660 CAACATGTTTCCACAGCATATTCACCTCTGCACCATGAGCGTGAGCGCTGATATTCGTGT	719
QY	728 CTGCCACCTGTCAAGCGCTTAGATTTCCGTACTCCCCGAAATGCCAAATATCAATGT	787
DB	720 CTGCCACCTGTCAAGCGCTTAGATTTCCGTACTCCCCGAAATGCCAAATATTCATCGT	779
QY	788 CTGCAACTGATCTCTCTTCAGCCATTGCTTCTGTAATGTTCATGGCTACAAACA	847
DB	780 CTGCAACTGATCTCTCTTCAGCCATTGCTTCTGTAATGTTCATGGCTACAAACA	839
QY	848 ATACAGCAAGGTTCCATAGATTGTACATAAATCTCTCATCCACCTGGTACTGGGA	907
DB	840 ATACAGCAAGGTTCCATAGATTGTACATAAATCTCTCATCCACCTGGTACTGGGA	899
QY	908 AAACCTCGTGAAGATCTGTGTTTTCATCTTCGCGCTTCATTTATGCCAGTGTCTCATTTAC	967

DB	900 GAACCTGCTCAAAATCTGTGTCTTTATCTTCGCTTTTCATATGCGATCCTCATCATCAC	959
QY	968 CGTGTGCTATGACTGATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAA	1027
DB	960 TGTGTGTTACGCGCTGATGATCTTACGACTCAAGAGCGTTGCGATGCTATCGGGCTCCAA	1019
QY	1028 AGAAAAGACAGGAATCTTTCGAAGGATCACAGAGATGGTGTGTTGGTGGTGTGTT	1087
DB	1020 AGAAAAGACAGGAATCTTTCGCGAGGATCACCGGATGGTGTGTTGGTGGTGTGTT	1079
QY	1088 CATGCTGTGCTGACTCCCATTCATTTACGTCATCAATTAAGCCCTTGGTTTACATCC	1147
DB	1080 TATGCTGTGCTGAGCCCCCATTCATCTACGTCATCAATCAAGCGCTGATCAGGATTC	1139
QY	1148 AGAAACTACGTTTCAGAGCTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTTACAAACAG	1207
DB	1140 AGAAACACATTTTCAGACCGTTTCTGCGACTTCTGCAATGCTTTCGTTTACACGACAG	1199
QY	1208 CTGCTCAACCCAGTCTTTCATGCAATTTCTGGATGAAAACCTTCAACGATGCTTCAGAGA	1267
DB	1200 CTGCTGAATCCAGTTCTTTAGCGCTTCTTGGATGAAAACCTTCAAGCGATGCTTCAGAGA	1259
QY	1268 GTTCTGATTCACCACTCTTCCAAATTTGAGCAACAAAACCTCCACTCGAATTCGTCAGAA	1327
DB	1260 GTTCTGATTCACCACTCTTCCAAATTTGAGCAACAAAACCTCCACTCGAATTCGTCAGAA	1319
QY	1328 CACTAGACACCACTCCAGCGCAATACAGTGTGATAGAACTAATCATCAGTACAGAAA	1387
DB	1320 CACTAGGAAACATCTCCAGCGCTTACAGTGTGATGAACTAATCAGTACAGAAA	1379
QY	1388 TCTGGAAGCAGAAATCTGCTCCCTTAACAGGGTCTCATGCGCATTCGACCTCCAGCTCAC	1447
DB	1380 TCTGAGGACAGAAATCTGCTCCCTTAACAGGGTCTCACACCATCCAGACCTCGCT	1439
QY	1448 AGCTTTAGAGCCACCATGATGTGGAAGCAGGTTGCTTCAAGATGTGTAGAGGCTCT	1507
DB	1440 AAGCTTAGAGCGCGCATCTACGTGGAATCAGGTTGCTGTCAAGGTTGTGTGGAGGCTCT	1499
QY	1508 AATCTCTAGGAAGTGGCTACTTTTAGGTATCAACCTCTTCTCTCTCTGCGCACTCT	1567
DB	1500 GGTTCCTCGAGAAA---CCATCTGATCTCGCATTAAGTCAATCTCTCTGCGCACTCT	1556
QY	1568 GCTCTGCACATTAGAG 1583	
DB	1557 ACTCTGCACATGAGAG 1572	

RESULT 15
US-08-889-108-3
; Sequence 3, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: YU, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

```
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cDNA)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 339..1235
US-08-889-108-3

Query Match 50.2%; Score 1087.6; DB 3; Length 1618;
Best Local Similarity 83.2%; Pred. No. 3.2e-269;
Matches 1312; Conservative 0; Mismatches 249; Indels 15; Gaps 6;

Qy 9 GGCTATAGCAGAGAGAGATGTCAGATGCTCAGCTCGGTCCGCTCCGCTCGAGCTCCTC 68
Db 11 GGCTACAAGCAGAGAGAGATATCAGACGCTCAG-ACGTTCCCTTCTGCTCCGCTCTTC 69

Qy 69 TCTGTCTCAGCCAGGACTGGTTCTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
Db 70 TCTGTTCCACTAGGGCTGGTCCATGTAAAGATCTGACGGAGCCTAGGGCAGCTGTGAGA 129

Qy 128 GGAAGCGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGCTGCTCCTCGCACAG 187
Db 130 GGAAGAGCTGGGGCGCTGGAAACCCGAAAGTCTGAGTGTCTCAGTTACAGCCTAC-C 188

Qy 188 CGGTCCCGCGCGCGCTCAGTACCATGGAAGAGAGCGCTGCCCGCCAGAGCGCAGCAA 247
Db 189 TAGTCCCGCAGCAGGCGCTTCAGACCATGGAAGAGAGCACCAGCGCCAGGGAACAACAGCGA 248

Qy 248 TTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCAGCGCGGTCTCTGGGT 307
Db 249 CTGCTCAGACCGCTTAGCTCAGGCAAGTTGCTCCCGACA-----CTGGCTCTGGCT 302

Qy 308 CAACTTGTCCTCACTTAGATGGCAACCTGTCGAGCCCATGCGGTCCGAACCGCACCAACCT 367
Db 303 CAACTTGTCCTCACTTGATGGCAACCACTCCGATCCATGCGGTCTGAAACCGCACCGGGCT 362

Qy 368 GGGCGGGAGACAGCCTGTGCGCTCCAGCGGGGAGTCCCTCCATGATCAGCGGCAT 427
Db 363 TGGCGGGAAACAGCAGCCTGTGCGCTCAGC---CGGCAGCGCTTCATGGTCAAGCCAT 419

Qy 428 CACGATCATGGCCCTCTACTCATCGTGTGGGTCTTTCGGGAACTTCTCTGGT 487
Db 420 TACCATCATGGCCCTCTACTCATCGTGTGTAGTGGGCTCTTTCGGAAACTTCTCTGGT 479

Qy 488 CATGATGATGATGTGCAGATACACCAAGATGAAGACTGCCCAACATCTCATATTTCAA 547
Db 480 CATGATGATGATGTGAAGATACCAAAATGAAGACTGCCCAACATCTCATATTTCAA 539

Qy 548 CTTGCTCTGGCAGATGCTTAGCCACGATACCTGCTCCCTTCCAGAGTGTGAATTACCT 607
Db 540 CTTGCTCTGGCAGAGCGCTTAGCGACCACTACACTGCGCCCTTTCAGAGTGTCAACTACCT 599

Qy 608 AATGGAAATGGCCATTTGGAACCATCTCTTGAAGATAGTGTCTCCATAGATTACTA 667
Db 600 GATGGAAATAGGCCCTTCGGNACCATCTCTGGAAGATCGTGATCTCAATAGATTACTA 659

Qy 668 TAACATGTTCCACGACATATTCACCCCTCTGCACCATGAGTGTGTGATGCATATTCAGT 727
Db 660 CAACATGTTCCACGACATATTCACCCCTCTGCACCATGAGCGTGGACCGCTACATTCGTGT 719
```

Search completed: January 8, 2006, 20:21:11
Job time : 370.208 secs

GenCore version 5.1.6
Copyright (C) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:36:32 ; Search time 1714.9 Seconds
(without alignments)
10439.788 Million cell updates/sec

Title: US-09-883-839-1-401-THEN-GGC
Perfect score: 2165
Sequence: 1 ggaattccggctataggcag.....gtggtttctctcggaattc 2165

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA.Main:*
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	2163	99.9	2165	3	US-09-883-839-9
2	2147	99.2	2162	3	US-09-883-839-1
3	2147	99.2	2162	5	US-10-225-567A-185
4	2147	99.2	2162	6	US-10-305-720-1379
5	2147	99.2	2162	9	US-10-500-050-1
6	2145.4	99.1	2162	3	US-09-883-839-3
7	2145.4	99.1	2162	3	US-09-883-839-5
8	2145.4	99.1	2162	3	US-09-883-839-7
9	2145.4	99.1	2162	3	US-09-883-839-8
10	2097.4	96.9	2149	5	US-10-080-917-12
11	2086.4	96.4	2279	5	US-10-477-714-33
12	1340.4	61.9	1473	5	US-10-080-917-13
13	1332.2	61.5	1431	5	US-10-080-917-6
14	1186.8	54.8	1203	3	US-09-826-509-544
15	1186.8	54.8	1203	8	US-10-925-095-544
16	1185.6	54.8	1388	5	US-10-185-083-26
17	1184.2	54.7	1464	5	US-10-185-083-25
18	1166	53.9	2229	3	US-09-214-904-1
19	1152.2	53.2	1182	3	US-09-826-509-546
20	1152.2	53.2	1182	8	US-10-925-095-546
21	1146.2	52.9	1245	5	US-10-080-917-8
22	1144.4	52.9	1176	3	US-09-935-061-11
23	1144.4	52.9	1176	7	US-10-692-071-11

24	1135.6	52.5	1981	3	US-09-823-114-15	Sequence 15, Appl
25	1135.6	52.5	1981	6	US-10-290-748-15	Sequence 15, Appl
26	1115.6	51.5	1176	3	US-09-935-061-13	Sequence 13, Appl
27	1115.6	51.5	1176	7	US-10-692-071-13	Sequence 13, Appl
28	1113.4	51.4	1197	3	US-09-935-061-15	Sequence 15, Appl
29	1113.4	51.4	1197	7	US-10-692-071-15	Sequence 15, Appl
30	1092.2	50.4	1239	5	US-10-080-917-10	Sequence 10, Appl
31	1087.6	50.2	1618	3	US-09-841-720-1	Sequence 1, Appl
32	1087.6	50.2	1618	3	US-09-841-720-3	Sequence 3, Appl
33	1059.6	48.9	1610	3	US-09-761-962-16	Sequence 16, Appl
34	1059.6	48.9	1610	5	US-10-283-300-16	Sequence 16, Appl
35	1009.4	46.6	1614	5	US-10-185-083-16	Sequence 17, Appl
36	981.4	45.3	1569	5	US-10-185-083-17	Sequence 17, Appl
37	979.2	45.2	1440	5	US-10-185-083-15	Sequence 24, Appl
38	908	41.9	1695	5	US-10-185-083-24	Sequence 4, Appl
39	905	41.8	1542	3	US-09-761-962-4	Sequence 4, Appl
40	905	41.8	1542	5	US-10-283-300-4	Sequence 11, Appl
41	903.6	41.7	1365	3	US-09-761-962-11	Sequence 11, Appl
42	903.6	41.7	1365	5	US-10-283-300-11	Sequence 51, Appl
43	903.6	41.7	1373	5	US-10-185-083-51	Sequence 1, Appl
44	903.6	41.7	1423	3	US-09-761-962-1	Sequence 1, Appl
45	903.6	41.7	1423	5	US-10-283-300-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-883-839-9
; Sequence 9, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: Laforge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2165
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2066..2094
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-9

Query Match		99.9%	Score 2163;	DB 3;	Length 2165;
Best Local Similarity		100.0%	Pred. No. 0;		
Matches 2165;		Conservative	0;	Mismatches	0;
				Indels	0;
				Gaps	0;
QY	1	GGAAATTCGGGCTATAGCAGAGGAGAAATGTCAGATGCTCAGTCCGTCGGTCCCTCGGCTGA	60		
DB	1	GGAAATTCGGGCTATAGCAGAGGAGAAATGTCAGATGCTCAGTCCGTCGGTCCCTCGGCTGA	60		
QY	61	CGCTCTCTCTGTCCTCAGCCAGGACTGGTTCTGTGAAGAACAGCAGGAGCTGGGAGC	120		
DB	61	CGCTCTCTCTGTCCTCAGCCAGGACTGGTTCTGTGAAGAACAGCAGGAGCTGGGAGC	120		
QY	121	GGCGAAGGAAGCGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACCT	180		
DB	121	GGCGAAGGAAGCGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACCT	180		
QY	181	CGCACAGCGGTGCCCGCGCGCGTCCAGTACCATGGACAGCAGCGTGTGCCCCACGACG	240		
DB	181	CGCACAGCGGTGCCCGCGCGCGTCCAGTACCATGGACAGCAGCGTGTGCCCCACGACG	240		

Qy	1921	AATTAGCATCTGGCTAAGGCATCAATTTTACCTCCAATTTCTTGTTTGTATGTTTAAA	1980
Db	1918	AATTAGCATCTGGCTAAGGCATCAATTTTACCTCCAATTTCTTGTTTGTATGTTTAAA	1977
Qy	1981	AAAAATTAACATCTCTTTTCATCTAGCTCGATTAATGCAAGGAGAGATTAGCATGAAAGG	2040
Db	1978	AAAAATTAACATCTCTTTTCATCTAGCTCGATTAATGCAAGGAGAGATTAGCATGAAAGG	2037
Qy	2041	TAATCTGAAACACACAGTCATGTGCANCCTGTAGAAAGGTTGATTTCTCATGCACTNCAATA	2100
Db	2038	TAATCTGAAACACACAGTCATGTGCANCCTGTAGAAAGGTTGATTTCTCATGCACTNCAATA	2097
Qy	2101	CTTCCAAAGAGTCATCATGCGGGGATTTTTCATTTCTTAGGCTTTTCAGTGGTTTGTTCCTGG	2160
Db	2098	CTTCCAAAGAGTCATCATGCGGGGATTTTTCATTTCTTAGGCTTTTCAGTGGTTTGTTCCTGG	2157
Qy	2161	AATTC 2165	
Db	2158	AATTC 2162	
RESULT 3			
US-10-225-567A-185			
; Sequence 185, Application US/10225567A			
; Publication No. US20030113798A1			
; GENERAL INFORMATION:			
; APPLICANT: LifeSpan Biosciences			
; APPLICANT: Brown, Joseph P.			
; APPLICANT: Burner, Glenna C.			
; APPLICANT: Roush, Christine L.			
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS			
; FILE REFERENCE: 1920-4-4			
; CURRENT APPLICATION NUMBER: US/10/225,567A			
; CURRENT FILING DATE: 2001-12-19			
; PRIOR APPLICATION NUMBER: 60/257,144			
; PRIOR FILING DATE: 2000-12-19			
; NUMBER OF SEQ ID NOS: 2292			
; SOFTWARE: PatentIn version 3.1			
; SEQ ID NO 185			
; LENGTH: 2162			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
; FEATURE:			
; NAME/KEY: misc feature			
; LOCATION: (2063)..(2063)			
; OTHER INFORMATION: unknown nucleotide			
; FEATURE:			
; NAME/KEY: misc feature			
; LOCATION: (2091)..(2091)			
; OTHER INFORMATION: unknown nucleotide			
US-10-225-567A-185			
Query Match 99.2%; Score 2147; DB 5; Length 2162;			
Best Local Similarity 99.9%; Pred. No. 0;			
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;			
Qy	1	GGAAATTCGGCTATAGGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCGGCTGA	60
Db	1	GGAAATTCGGCTATAGGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCGGCTGA	60
Qy	61	CGCTTCCTCTCTGCTCAGCAGAGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC	120
Db	61	CGCTTCCTCTCTGCTCAGCAGAGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC	120
Qy	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT	180
Db	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT	180
Qy	181	CGCACAGCGGTGCCCGCGCGTCTAGTACCATTGGACAGCAGCGCTGCCCGCCACGAAAG	240
Db	181	CGCACAGCGGTGCCCGCGCGTCTAGTACCATTGGACAGCAGCGCTGCCCGCCACGAAAG	240

```
Db 1318 GTCCAGACACTAGAGACCACCCCTCCACGGCCCAATACAGTGATAGAACTAATCATCAGC 1377
Qy 1381 TAGAAAACTCGAAGCAGAAAACTGCTCGGTTCGCCCTAACAGGGTCTCATGCCATCCGAC 1440
Db 1378 TAGAAAACTCGAAGCAGAAAACTGCTCGGTTCGCCCTAACAGGGTCTCATGCCATCCGAC 1437
Qy 1441 CTTCCACCAAGCTTAGAAGCCCACTATGTGCGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1500
Db 1438 CTTCCACCAAGCTTAGAAGCCCACTATGTGCGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1497
Qy 1501 AGGCTCTAATTTCTTAGGAAAGTGCCCTACTTTTAGGTCAATCCAACTCTTCTCTCTGG 1560
Db 1498 AGGCTCTAATTTCTTAGGAAAGTGCCCTACTTTTAGGTCAATCCAACTCTTCTCTCTGG 1557
Qy 1561 CCACTCTGCTGTCATTTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTTGGAAAGAAAG 1620
Db 1558 CCACTCTGCTGTCATTTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTTGGAAAGAAAG 1617
Qy 1621 GAATATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
Db 1618 GAATATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
Qy 1681 GTGGTATGTGAATTTGAAGTCATCAATAAAGGTGACCCCTTCTGTCTGTGAAGATTTATTTT 1740
Db 1678 GTGGTATGTGAATTTGAAGTCATCAATAAAGGTGACCCCTTCTGTCTGTGAAGATTTATTTT 1737
Qy 1741 CAAGCAAAATATTATGACCTCAACAAAGAAACCAATCTTTTGTGTTAAGTTTCAACCTTAA 1800
Db 1738 CAAGCAAAATATTATGACCTCAACAAAGAAACCAATCTTTTGTGTTAAGTTTCAACCTTAA 1797
Qy 1801 ACACATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTT 1860
Db 1798 ACACATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTT 1857
Qy 1861 TAGTGTGTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA 1920
Db 1858 TAGTGTGTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA 1917
Qy 1921 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATTTGTTTAA 1980
Db 1918 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATTTGTTTAA 1977
Qy 1981 AAAAATAACATCTTTTATCTAGCTTCCATTAATTGCAAGGAGAGATAGCATGAAAG 2040
Db 1978 AAAAATAACATCTTTTATCTAGCTTCCATTAATTGCAAGGAGAGATAGCATGAAAG 2037
Qy 2041 TAATCTGAAACACAGTCATGTGTCANCTGTAGAAAGTTGATTTCTCATGCACCTNCAATA 2100
Db 2038 TAATCTGAAACACAGTCATGTGTCANCTGTAGAAAGTTGATTTCTCATGCACCTNCAATA 2097
Qy 2101 CTTTCCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTTTGTCTCTGG 2160
Db 2098 CTTTCCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTTTGTCTCTGG 2157
Qy 2161 AATTC 2165
Db 2158 AATTC 2162
```

```
RESULT 4
US-10-305-720-1379
; Sequence 1379, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; PRIOR FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
```

```
; SOFTWARE: PERL Program
; SEQ ID NO 1379
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 9452072
; NAME/KEY: unsure
; LOCATION: (1) ... (2162)
; OTHER INFORMATION: a, t, c, g, or other
US-10-305-720-1379

Query Match 99.2%; Score 2147; DB 6; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;

Qy 1 GGAATTCGGGCTATAGGCAGAGGAATGTTCAGATGCTCAGTCCGTCCGCTCCGCTCA 60
Db 1 GGAATTCGGGCTATAGGCAGAGGAATGTTCAGATGCTCAGTCCGTCCGCTCCGCTCA 60
Qy 61 CGCTCTCTCTGTCTCAGCCAGGACTGCTTCTGTAAAGAAACAGCAGAGAGCTGTGCAGC 120
Db 61 CGCTCTCTCTGTCTCAGCCAGGACTGCTTCTGTAAAGAAACAGCAGAGAGCTGTGCAGC 120
Qy 121 GCGCAAAAGGAGCGGCTGAGCGCTTGGAACCCGAAAGTCTTCGGTGTCTTCCGTACCT 180
Db 121 GCGCAAAAGGAGCGGCTGAGCGCTTGGAACCCGAAAGTCTTCGGTGTCTTCCGTACCT 180
Qy 181 CGCAGACGGGTGCCCGCCGCGTCACTGATGCAAGAGCGCTGCCCCCAACGAAACG 240
Db 181 CGCAGACGGGTGCCCGCCGCGTCACTGATGCAAGAGCGCTGCCCCCAACGAAACG 240
Qy 241 CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGACACCCAGCCCGGTT 300
Db 241 CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGACACCCAGCCCGGTT 300
Qy 301 CCGTGGTCAACTTGTCCCACTTTAGATGGCAACCTGTCCGACCCATCGCGTCCGAAACGCA 360
Db 301 CCGTGGTCAACTTGTCCCACTTTAGATGGCAACCTGTCCGACCCATCGCGTCCGAAACGCA 360
Qy 361 CCAACTCGGGGGGAGAGACAGCTGTGCCCTTCCGACCGCGGAGTCCCTCATGATCA 420
Db 361 CCAACTCGGGGGGAGAGACAGCTGTGCCCTTCCGACCGCGGAGTCCCTCATGATCA 417
Qy 421 CGGCCATCACGATCATGGCCCTCTACTCCATCGTGTGGTGTGGGCTCTTTCGGAACCT 480
Db 418 CGGCCATCACGATCATGGCCCTCTACTCCATCGTGTGGTGTGGGCTCTTTCGGAACCT 477
Qy 481 TCCTGTCATGTATGTGATTGTGATACACCAAGATGAAGACTGCGCACCAACATCTACA 540
Db 478 TCCTGTCATGTATGTGATTGTGATACACCAAGATGAAGACTGCGCACCAACATCTACA 537
Qy 541 TTTTCAACCTTCTCTGGCAGATGCTTAGCCACCAAGTACCTGCGCTTCCAGAGTGTGA 600
Db 538 TTTTCAACCTTCTCTGGCAGATGCTTAGCCACCAAGTACCTGCGCTTCCAGAGTGTGA 597
Qy 601 ATTACCTAATGGGAACATGGCCCATTTGGAACCATCTTTTGCAGAGATAGTATCTCCATAG 660
Db 598 ATTACCTAATGGGAACATGGCCCATTTGGAACCATCTTTTGCAGAGATAGTATCTCCATAG 657
Qy 661 ATTACTATAACATGTTTCCACGACATATTCACCTCTGCAACCATGAGTGTTCGATACA 720
Db 658 ATTACTATAACATGTTTCCACGACATATTCACCTCTGCAACCATGAGTGTTCGATACA 717
Qy 721 TTGCGAGTCTGCCACCCCTCTCAAGGCTTAGATTTCGCTACTCCCGAAATGCCAAATTA 780
Db 718 TTGCGAGTCTGCCACCCCTCTCAAGGCTTAGATTTCGCTACTCCCGAAATGCCAAATTA 777
Qy 781 TCAATGCTGCAACTGGATCTCTCTTTCAGCCATTTGGTCTTCTTAAATGTTTCATGGCTA 840
Db 778 TCAATGCTGCAACTGGATCTCTCTTTCAGCCATTTGGTCTTCTTAAATGTTTCATGGCTA 837
```

QY 841 CAACAAATACAGGCAAGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGT 900
Db 838 CAACAAATACAGGCAAGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGT 897
QY 901 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCCCTTCAATATGCCAGTGCTCA 960
Db 898 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCCCTTCAATATGCCAGTGCTCA 957
QY 961 TCATTACCGTGTGCTATGAGCTGATGATCTTGGGCTCAAGAGTGTCCGCAATGCTCTCTG 1020
Db 958 TCATTACCGTGTGCTATGAGCTGATGATCTTGGGCTCAAGAGTGTCCGCAATGCTCTCTG 1017
QY 1021 GCTCCAAAGAAAGACAGGAATCTTCGAAGATCACCAGATGTGTGGTGGTGG 1080
Db 1018 GCTCCAAAGAAAGACAGGAATCTTCGAAGATCACCAGATGTGTGGTGGTGG 1077
QY 1081 CTGTGTTTCATCTGTCTGGACTCCCATTTACATTTAGTCTCATTTAAAGCTTGGTTA 1140
Db 1078 CTGTGTTTCATCTGTCTGGACTCCCATTTACATTTAGTCTCATTTAAAGCTTGGTTA 1137
QY 1141 CAATCCCAGAAACTAGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1200
Db 1138 CAATCCCAGAAACTAGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1197
QY 1201 CAAACAGTGTCTCAACCCAGTCTTTATGCAATTTCTGGATGAATAACTTCAAACGATGCT 1260
Db 1198 CAAACAGTGTCTCAACCCAGTCTTTATGCAATTTCTGGATGAATAACTTCAAACGATGCT 1257
QY 1261 TCAGAGAGTTCTGATCCCAACTCTTCCAACTTGAGCAACAAATACTCCACTCGAATTC 1320
Db 1258 TCAGAGAGTTCTGATCCCAACTCTTCCAACTTGAGCAACAAATACTCCACTCGAATTC 1317
QY 1321 GTCAGAACACTAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGC 1380
Db 1318 GTCAGAACACTAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGC 1377
QY 1381 TAGAAAACTGGAACGAGAAACTGCTCGTGTGCCCTTAACAGGCTCTATGCCATCCGAC 1440
Db 1378 TAGAAAACTGGAACGAGAAACTGCTCGTGTGCCCTTAACAGGCTCTATGCCATCCGAC 1437
QY 1441 CTTCCACCAAGCTTTAGAAGCCACATGTATGTGAAGCAGGTGTCTTCAAGAAATGTGTAGG 1500
Db 1438 CTTCCACCAAGCTTTAGAAGCCACATGTATGTGAAGCAGGTGTCTTCAAGAAATGTGTAGG 1497
QY 1501 AGGCTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTTCATCCAACTCTTTCTCTCTGG 1560
Db 1498 AGGCTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTTCATCCAACTCTTTCTCTCTGG 1557
QY 1561 CCACCTCTGCTGACATTTAGGGGACAGCCAAAGTAAGTGGAGCATTTGGAAGGAAAG 1620
Db 1558 CCACCTCTGCTGACATTTAGGGGACAGCCAAAGTAAGTGGAGCATTTGGAAGGAAAG 1617
QY 1621 GAATATACACACCGAGAGTCCAGTTGTGCAAGACCCAGTGGAAACCAAAACCCATC 1680
Db 1618 GAATATACACACCGAGAGTCCAGTTGTGCAAGACCCAGTGGAAACCAAAACCCATC 1677
QY 1681 GTGTGATGTGAATTGAAGTTCATATAAAGAGTGACCCCTTCTGTGTGAAGATTTATTTT 1740
Db 1678 GTGTGATGTGAATTGAAGTTCATATAAAGAGTGACCCCTTCTGTGTGAAGATTTATTTT 1737
QY 1741 CAAGCAATATTTATGACCTCAACAAAGAGAACCATCTTTTGTAAAGTTCACCGTAGTA 1800
Db 1738 CAAGCAATATTTATGACCTCAACAAAGAGAACCATCTTTTGTAAAGTTCACCGTAGTA 1797
QY 1801 ACACATAAGTAAATGCTTACCTCTGATCAAGACCTTTGAATGGAAGTCCGAGTCTTTT 1860
Db 1798 ACACATAAGTAAATGCTTACCTCTGATCAAGACCTTTGAATGGAAGTCCGAGTCTTTT 1857
QY 1861 TAGTGTTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA 1920
Db 1858 TAGTGTTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA 1917

QY 1921 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGTGTTTATTGTTTAAA 1980
Db 1918 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGTGTTTATTGTTTAAA 1977
QY 1981 AAAAATAACATCTCTTTTCATCTAGCTCATATAATTTGCAAGGGAAGAGATTAGCATGAAAG 2040
Db 1978 AAAAATAACATCTCTTTTCATCTAGCTCATATAATTTGCAAGGGAAGAGATTAGCATGAAAG 2037
QY 2041 TAATCTGAACACAGTGTATGTGTCACTGTAGAAAGGTTGATTTCTCATGCACTNCAATA 2100
Db 2038 TAATCTGAACACAGTGTATGTGTCACTGTAGAAAGGTTGATTTCTCATGCACTNCAATA 2097
QY 2101 CTTCCAAAGAGTCTATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGTGTTGTTCTCTGG 2160
Db 2098 CTTCCAAAGAGTCTATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGTGTTGTTCTCTGG 2157
QY 2161 AATTC 2165
Db 2158 AATTC 2162

RESULT 5
US-10-500-050-1
; Sequence 1, Application US/10500050
; Publication No. US20050106568A1
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Method of Quantifying Nucleic Acid And Kit for Quantifying Nuclei
; FILE REFERENCE: P02-0156
; CURRENT APPLICATION NUMBER: US/10/500,050
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: JP 2001-400280
; PRIOR FILING DATE: 2001-12-28
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063.. 2091
; OTHER INFORMATION: n stands for any base
US-10-500-050-1

Query Match 99.2%; Score 2147; DB 9; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;

QY 1 GGAATTCGGCTATAGCAGAGGAGAAATGTCTGATGCTCAGTCTGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGCAGAGGAGAAATGTCTGATGCTCAGTCTGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTGTCTCAGCAGGAGTGGTTTCTGTAAGAAACAGCAGAGAGCTGTGGCAGC 120
Db 61 CGCTCTCTCTGTCTCAGCAGGAGTGGTTTCTGTAAGAAACAGCAGAGAGCTGTGGCAGC 120
QY 121 GGCAGAAAGAGGCGGTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
Db 121 GGCAGAAAGAGGCGGTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
QY 181 CGCAGAGCGGTGCCCGCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAACG 240
Db 181 CGCAGAGCGGTGCCCGCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAACG 240
QY 241 CCAGCAATTGCACTGTATGCTTGGCGTACTCAAGTGTCTCCCAAGCAACCCAGCCCCCGTT 300
Db 241 CCAGCAATTGCACTGTATGCTTGGCGTACTCAAGTGTCTCCCAAGCAACCCAGCCCCCGTT 300
QY 301 CTTGGGTCAAATTGTCTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
Db 301 CTTGGGTCAAATTGTCTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
QY 361 CCAACTTGGCGGGAGAGACAGCTGTGTCCTCCGACCGGGCGGAGTCCCTCCCATGATCA 420

; NAME/KEY: misc feature									
; LOCATION: 2063_2091									
; OTHER INFORMATION: n = A,T,C or G									
US-09-883-839-3									
Query Match									
Best Local Similarity 99.1%; Score 2145.4; DB 3; Length 2162;									
Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1;									
Qy	1	GGAATTCGGGTATAGGCAGAGGAGAAATGTGAGATGCTCAGTGTGGTCCCTCCGCTGA	60						
Db	1	GGAATTCGGGTATAGGCAGAGGAGAAATGTGAGATGCTCAGTGTGGTCCCTCCGCTGA	60						
Qy	61	CGCTCCTCTCTCTCAGCCAGGACTGTTCTGTAAAGAAACAGCAGAGAGCTGGGAGC	120						
Db	61	CGCTCCTCTCTCTCAGCCAGGACTGTTCTGTAAAGAAACAGCAGAGAGCTGGGAGC	120						
Qy	121	GGCGAAAGGAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTGGCTACCT	180						
Db	121	GGCGAAAGGAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTGGCTACCT	180						
Qy	181	CGCAGCGGTGCCCGCGCGCGTCACTAATGGAACAGCAGCGCTGCCCGCCAGAAAG	240						
Db	181	CGCAGCGGTGCCCGCGCGCGTCACTAATGGAACAGCAGCGCTGCCCGCCAGAAAG	240						
Qy	241	CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGCGGT	300						
Db	241	CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGCGGT	300						
Qy	301	CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAACGCA	360						
Db	301	CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAACGCA	360						
Qy	361	CAAACCTGGGGGAGAGACGCTGTGCTCCGACCGGCGGAGTCCCTCCATGATCA	420						
Db	361	CAAACCTGGGGGAGAGACGCTGTGCTCCGACCGGCGGAGTCCCTCCATGATCA	420						
Qy	421	CGGCCATCAGCATGATGCTTCTACTCCATGCTGTGCTGGTGGGCTCTTCGGAACCT	480						
Db	418	CGGCCATCAGCATGATGCTTCTACTCCATGCTGTGCTGGTGGGCTCTTCGGAACCT	477						
Qy	481	TCCTGGTCAATGTATGTGATGTGTGATGATACCAAGATGAAGACTGCCACCAACATCTACA	540						
Db	478	TCCTGGTCAATGTATGTGATGTGTGATGATACCAAGATGAAGACTGCCACCAACATCTACA	537						
Qy	541	TTTTCAACCTTGCTCTGGCAGATGCTTAGGCAACAGTACCTGCGCTCCAGAGTGTGA	600						
Db	538	TTTTCAACCTTGCTCTGGCAGATGCTTAGGCAACAGTACCTGCGCTCCAGAGTGTGA	597						
Qy	601	ATTACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCCCATAG	660						
Db	598	ATTACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCCCATAG	657						
Qy	661	ATTACTATAACATGTTTACCAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACA	720						
Db	658	ATTACTATAACATGTTTACCAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACA	717						
Qy	721	TTGCAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCCCGTAATGCGGAAATTA	780						
Db	718	TTGCAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCCCGTAATGCGGAAATTA	777						
Qy	781	TCMATGCTGCAACTGGATCCTCTCTCAGCCATGCTTCTCTGTAATGTTTATGGCTA	840						
Db	778	TCMATGCTGCAACTGGATCCTCTCTCAGCCATGCTTCTCTGTAATGTTTATGGCTA	837						
Qy	841	CAACAAAATACAGGCAAGGTTCCATAGATTTGTACACTAACATTTCTCATCCAACTGGT	900						
Db	838	CAACAAAATACAGGCAAGGTTCCATAGATTTGTACACTAACATTTCTCATCCAACTGGT	897						
Qy	901	ACTGGGAAAACTCTGTGAAGATCTGTGTTTTTCACTTTCGCTTCAATATGCGAGTGTCA	960						
Db	898	ACTGGGAAAACTCTGTGAAGATCTGTGTTTTTCACTTTCGCTTCAATATGCGAGTGTCA	957						

Qy	961	TCATTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG	1020						
Db	958	TCATTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG	1017						
Qy	1021	GCTCCAAAGAAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGGTGG	1080						
Db	1018	GCTCCAAAGAAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGGTGG	1077						
Qy	1081	CTGTGTTTCATGCTGTGCTGGACTCCCATTTACATTTACGTCATATTAAGACCTTGGTTA	1140						
Db	1078	CTGTGTTTCATGCTGTGCTGGACTCCCATTTACATTTACGTCATATTAAGACCTTGGTTA	1137						
Qy	1141	CAATCCCAGAAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA	1200						
Db	1138	CAATCCCAGAAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA	1197						
Qy	1201	AAAAACGCTGCTCAACCCAGTCTCTTATGATTTCTGGATGAAAACTTTCAACGATGCT	1260						
Db	1198	AAAAACGCTGCTCAACCCAGTCTCTTATGATTTCTGGATGAAAACTTTCAACGATGCT	1257						
Qy	1261	TCAGAGAGTTCGTATCCCAACCTCTTCCAACTTGGACCAACAACTCCCACTCGAATTC	1320						
Db	1258	TCAGAGAGTTCGTATCCCAACCTCTTCCAACTTGGACCAACAACTCCCACTCGAATTC	1317						
Qy	1321	GTCAAGAACACATAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGC	1380						
Db	1318	GTCAAGAACACATAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGC	1377						
Qy	1381	TAGAAAACTGGAAAGCAAGAACTGCTCCGTGGTCCCTTAACAGGGTCTCATGCCATTCGAC	1440						
Db	1378	TAGAAAACTGGAAAGCAAGAACTGCTCCGTGGTCCCTTAACAGGGTCTCATGCCATTCGAC	1437						
Qy	1441	CTTCACCAAGCTTAGAGCCACCATGATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGG	1500						
Db	1438	CTTCACCAAGCTTAGAGCCACCATGATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGG	1497						
Qy	1501	AGGCTCTAAATCTCTAGGAAAGTCCCTACTTTTAGGTCAATCCAACTCTTTCTCTCTGG	1560						
Db	1498	AGGCTCTAAATCTCTAGGAAAGTCCCTACTTTTAGGTCAATCCAACTCTTTCTCTCTGG	1557						
Qy	1561	CCACTCTGCTCTGCACATTTAGAGGGAACAGCCAAAGTAAGTGGAGCATTTGGAGGAAAG	1620						
Db	1558	CCACTCTGCTCTGCACATTTAGAGGGAACAGCCAAAGTAAGTGGAGCATTTGGAGGAAAG	1617						
Qy	1621	GAATATACCAACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATC	1680						
Db	1618	GAATATACCAACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATC	1677						
Qy	1681	GTGATGTGAATTTGAAGTCAATCAATAAAGGTGACCCCTTCTGCTGTAAAGATTTTATTTT	1740						
Db	1678	GTGATGTGAATTTGAAGTCAATCAATAAAGGTGACCCCTTCTGCTGTAAAGATTTTATTTT	1737						
Qy	1741	CAAGCAAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACGATGA	1800						
Db	1738	CAAGCAAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACGATGA	1797						
Qy	1801	ACACATAAAGTAAATGCTTACCTCTGATCAAGCAACCTTTGAATGGAAGTCCGAGTCTTTT	1860						
Db	1798	ACACATAAAGTAAATGCTTACCTCTGATCAAGCAACCTTTGAATGGAAGTCCGAGTCTTTT	1857						
Qy	1861	TAGTGTGTTTTTGCAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA	1920						
Db	1858	TAGTGTGTTTTTGCAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA	1917						
Qy	1921	AATTAGCATCTGGCTAAGGCAATCAATTTTCACTCCATTTCTTGGTTTTTGTATTGTTAAA	1980						
Db	1918	AATTAGCATCTGGCTAAGGCAATCAATTTTCACTCCATTTCTTGGTTTTTGTATTGTTAAA	1977						
Qy	1981	AAAAATACATCTCTTTTCACTCTAGCTCCATTAATTTGCAAGGGAAGAGATTAGCATGAAGG	2040						
Db	1978	AAAAATACATCTCTTTTCACTCTAGCTCCATTAATTTGCAAGGGAAGAGATTAGCATGAAGG	2037						
Qy	2041	TAATCTGAAACACAGTCAATGTGTGCANCTGTAGAAAAGGTTGATTTCTCATGCACTNCAATA	2100						

```
Db      2038  |||||TAACTGAAACACAGTCATGTGTGTCANCTGTAGAAAGTTGATTTCTCATGCACNCAATA 2097
Qy      2101  |||||TTTCCAAAGAGTCATCATGGGGATTTTTCATCTTTAGGCTTTTCTAGTGGTTTGTTCCTGG 2160
Db      2098  |||||TTTCCAAAGAGTCATCATGGGGATTTTTCATCTTTAGGCTTTTCTAGTGGTTTGTTCCTGG 2157
Qy      2161  |||||AATTC 2165
Db      2158  |||||AATTC 2162

RESULT 7
US-09-883-839-5
; Sequence 5, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kfeek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G

US-09-883-839-5

Query Match          99.1%; Score 2145.4; DB 3; Length 2162;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1;

Qy      1  GGAATTCGGCTATAGCAGAGAGATGTTCAGATGCTCAGTCTCGTCCGCTCGCCTGA 60
Db      1  GGAATTCGGCTATAGCAGAGAGATGTTCAGATGCTCAGTCTCGTCCGCTCGCCTGA 60
Qy      61  CGCTCTCTCTGTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db      61  CGCTCTCTCTGTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Qy      121  GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCTGGCTACCT 180
Db      121  GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCTGGCTACCT 180
Qy      181  CGCACAGCGGTGCCCGCGCGCTGACGTACCATGTACACAGCAGCGCTGCCCGCCACGACG 240
Db      181  CGCACAGCGGTGCCCGCGCGCTGACGTACCATGTACACAGCAGCGCTGCCCGCCACGACG 240
Qy      241  CCAGCAATTCGACTGATGCTTGGCGTCTCAAGTTGCTCCCGCAGCACCGCCCGGTT 300
Db      241  CCAGCAATTCGACTGATGCTTGGCGTCTCAAGTTGCTCCCGCAGCACCGCCCGGTT 300
Qy      301  CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCGGAACCGCA 360
Db      301  CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCGGAACCGCA 360
Qy      361  CCAACTGGCGGGAGAGACAGCTGTGCCCTCGGACCGGCGGAGTCCCTCCATGATCA 420
Db      361  CCAACTGGCGGGAGAGACAGCTGTGCCCTCGGACCGGCGGAGTCCCTCCATGATCA 417
Qy      421  CGGCCATCAGATCGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCT 480
```

```
Db      418  CGGCCATCAGATCATGGCCCTCTACTCCATCGTGTGCTGGTGGGGCTCTTCGGAAACT 477
Qy      481  TCCTGGTTCATGTATGTGATTTGTGAGATACACCAAGATGAAGACTGCCACCAACTCTACA 540
Db      478  TCCTGGTTCATGTATGTGATTTGTGAGATACACCAAGATGAAGACTGCCACCAACTCTACA 537
Qy      541  TTTTCAACCTTGTCTGTGGCAGATGCTTTAGGCCACAGTACCCTGCTGCCCTTCAGAGTGCA 600
Db      538  TTTTCAACCTTGTCTGTGGCAGATGCTTTAGGCCACAGTACCCTGCTGCCCTTCAGAGTGCA 597
Qy      601  ATTACCTTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCATAG 660
Db      598  ATTACCTTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCATAG 657
Qy      661  ATTACTATAACATGTTTCAACAGCATATTTCAACCTCTGCACCATAGTGTGTGATCATACA 720
Db      658  ATTACTATAACATGTTTCAACAGCATATTTCAACCTCTGCACCATAGTGTGTGATCATACA 717
Qy      721  TTGCAGTCTGCCACCTCTGCAAGGCTTTAGATTTCCGTACTCTCCCGAAATGCCAAATTA 780
Db      718  TTGCAGTCTGCCACCTCTGCAAGGCTTTAGATTTCCGTACTCTCCCGAAATGCCAAATTA 777
Qy      781  TCAATGTCTGCAACTGGATCTCTTTCAGCCATTTGTTTCTCTCTCTCTCTCTCTCTCTCT 840
Db      778  TCAATGTCTGCAACTGGATCTCTTTCAGCCATTTGTTTCTCTCTCTCTCTCTCTCTCTCT 837
Qy      841  CAACAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCTCTCTCTCTCTCTCT 900
Db      838  CAACAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCTCTCTCTCTCTCTCT 897
Qy      901  ACTGGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATTTATGCGCAGTCTCA 960
Db      898  ACTGGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATTTATGCGCAGTCTCA 957
Qy      961  TCATTTACCGTGTGCTATGAGATGATCTTCCGCTCAAGAGTGTCCGCTCTCTCTCTCTCT 1020
Db      958  TCATTTACCGTGTGCTATGAGATGATCTTCCGCTCAAGAGTGTCCGCTCTCTCTCTCTCT 1017
Qy      1021  GCTCCAAAGAAAGGACAGGAAATCTTCAAGGATCACCAAGGATGCTGCTGCTGGTGGTGG 1080
Db      1018  GCTCCAAAGAAAGGACAGGAAATCTTCAAGGATCACCAAGGATGCTGCTGCTGGTGGTGG 1077
Qy      1081  CTGTGTTTCATCGTCTGCTGGACTCCCATTCACATTTACGTATCATTTAAAGCCTTGTTA 1140
Db      1078  CTGTGTTTCATCGTCTGCTGGACTCCCATTCACATTTACGTATCATTTAAAGCCTTGTTA 1137
Qy      1141  CAATCCAGAAACTAGTCTCAGACTGTTTCTTGGCACTTCTGCACTTCTCTAGGTTTACA 1200
Db      1138  CAATCCAGAAACTAGTCTCAGACTGTTTCTTGGCACTTCTGCACTTCTCTAGGTTTACA 1197
Qy      1201  CAAACAGCTGCTCAACCCAGTCTTTATGATTTCTGGATGAAATTTCAAAACGATGCT 1260
Db      1198  CAAACAGCTGCTCAACCCAGTCTTTATGATTTCTGGATGAAATTTCAAAACGATGCT 1257
Qy      1261  TCAGAGAGTTCGTATPCCCAACCTCTTCCAAATTGAGCAACAAACCTCACATCGAATTC 1320
Db      1258  TCAGAGAGTTCGTATPCCCAACCTCTTCCAAATTGAGCAACAAACCTCACATCGAATTC 1317
Qy      1321  GTCCAGAACACTAGAGACACCCCTTCAACGCGCCATACAGTGGATAGAACTAATCATCAGC 1380
Db      1318  GTCCAGAACACTAGAGACACCCCTTCAACGCGCCATACAGTGGATAGAACTAATCATCAGC 1377
Qy      1381  TAGAAAATCTGGAGCAGAAACTGCTCGCTTCCCTTAAACAGGGTCTCATGCCATTCGAC 1440
Db      1378  TAGAAAATCTGGAGCAGAAACTGCTCGCTTCCCTTAAACAGGGTCTCATGCCATTCGAC 1437
Qy      1441  CTTTCAACCAAGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAG 1500
Db      1438  CTTTCAACCAAGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGAAATGTGTAG 1497
Qy      1501  AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGTGCATCCAACTCTTCTCTCTCTCT 1560
Db      1498  AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGTGCATCCAACTCTTCTCTCTCTCT 1557
```


QY 1561 CCACCTCTGCTCTGCACATTAGAGGACAGCCAAAGTAGTGAAGGAGGAAAG 1620
Db 1558 CCACCTCTGCTCTGCACATTAGAGGACAGCCAAAGTAGTGAAGGAGGAAAG 1617
QY 1621 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCATC 1680
Db 1618 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCATC 1677
QY 1681 GTGGTATGTGAATTGAATGCATATAAAGAGTGACCTTCTGTCTGTGAAGATTTATTTT 1740
Db 1678 GTGGTATGTGAATTGAATGCATATAAAGAGTGACCTTCTGTCTGTGAAGATTTATTTT 1737
QY 1741 CAAGCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTGTTAAAGTTCAACGTAGTA 1800
Db 1738 CAAGCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTGTTAAAGTTCAACGTAGTA 1797
QY 1801 ACACATAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCGAGTCTTTT 1860
Db 1798 ACACATAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCGAGTCTTTT 1857
QY 1861 TAGTGTGTTTGAAGGGAATGAATCCATTAATCTATTTTAGACATTTTAACTTCAACTTAA 1920
Db 1858 TAGTGTGTTTGAAGGGAATGAATCCATTAATCTATTTTAGACATTTTAACTTCAACTTAA 1917
QY 1921 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTGTTTGTATTTGTTTAA 1980
Db 1918 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTGTTTGTATTTGTTTAA 1977
QY 1981 AAAATAAACATCTCTTTTCATCTAGCTCCATTAATGCAAGGGAAGAGATTAGCATGAAGG 2040
Db 1978 AAAATAAACATCTCTTTTCATCTAGCTCCATTAATGCAAGGGAAGAGATTAGCATGAAGG 2037
QY 2041 TAATCTGAAACACAGTCATGTGTCTGTCANCTGTGAGAAAGTTGATTCATGCACTNCAATA 2100
Db 2038 TAATCTGAAACACAGTCATGTGTCTGTCANCTGTGAGAAAGTTGATTCATGCACTNCAATA 2097
QY 2101 CTTCCAAAGAGTCATCANTGGGGATTTTTCATCTTAGGCTTTCAGTGGTTGTTCTCTGG 2160
Db 2098 CTTCCAAAGAGTCATCANTGGGGATTTTTCATCTTAGGCTTTCAGTGGTTGTTCTCTGG 2157
QY 2161 AATTC 2165
Db 2158 AATTC 2162

RESULT 8
US-09-883-839-7
; Sequence 7, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-7

Query Match 99.1%; Score 2145.4; DB 3; Length 2162;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
QY 1 GGAATTCGGCTATPAGCAGAGGAGAAATGTCAGATGCTCAGTCCGTCCCTCCGCTTGA 60
Db 1 GGAATTCGGCTATPAGCAGAGGAGAAATGTCAGATGCTCAGTCCGTCCCTCCGCTTGA 60
QY 61 CGCTCCTCTCTGCTCAGCAGGAGTGGTTTCTGTGAAGAAACAGCAGAGAGCTGGGAGC 120
Db 61 CGCTCCTCTCTGCTCAGCAGGAGTGGTTTCTGTGAAGAAACAGCAGAGAGCTGGGAGC 120
QY 121 GGGAAAAGGAGCGGCTTGAGCGCTTGAGAACCCGAAAAGTCTCGGTGCTCTCGCTACCT 180
Db 121 GGGAAAAGGAGCGGCTTGAGCGCTTGAGAACCCGAAAAGTCTCGGTGCTCTCGCTACCT 180
QY 181 CGCACAGCGGTGCGCGCCCGTCAGTACCAATGAGACAGAGCGCTGCCCCCAAGAACG 240
Db 181 CGCACAGCGGTGCGCGCCCGTCAGTACCAATGAGACAGAGCGCTGCCCCCAAGAACG 240
QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGCGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGCGTT 300
QY 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
Db 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
QY 361 CCAACTTGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGGCGAGTCCCTCCATGATCA 420
Db 361 CCAACTTGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGGCGAGTCCCTCCATGATCA 417
QY 421 CGGCCATCAGATCATGCGCCCTCTACTCAATGCTGTGCGGTGGTGGGCTCTTCGAAACT 480
Db 418 CGGCCATCAGATCATGCGCCCTCTACTCAATGCTGTGCGGTGGTGGGCTCTTCGAAACT 477
QY 481 TCCGTGTCATGTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
Db 478 TCCGTGTCATGTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 537
QY 541 TTTTCAAACCTTGTCTGCGCAGATGCTTACCGACCATGCTCCCTTCCAGAGTGTGA 600
Db 538 TTTTCAAACCTTGTCTGCGCAGATGCTTACCGACCATGCTCCCTTCCAGAGTGTGA 597
QY 601 ATTACCTTAATGGGAAACATGCGCCATTTGGAACCATCTTTTGAAGATAGTATCTCCATAG 660
Db 598 ATTACCTTAATGGGAAACATGCGCCATTTGGAACCATCTTTTGAAGATAGTATCTCCATAG 657
QY 661 ATTACTATAACATGTTCCACGAGATATTCACCCCTCTGCACCATGAGTGTGATCGATACA 720
Db 658 ATTACTATAACATGTTCCACGAGATATTCACCCCTCTGCACCATGAGTGTGATCGATACA 717
QY 721 TTGCAGTCTGCCACCTCTGTCAAGGCTTAGATTTCCGTACTCCCCGAAATGCCAAATTA 780
Db 718 TTGCAGTCTGCCACCTCTGTCAAGGCTTAGATTTCCGTACTCCCCGAAATGCCAAATTA 777
QY 781 TCAATGTCTGAACTGATCTCTCTTACGCCATGCTCTCTCTGTAATGTTCTATGCTA 840
Db 778 TCAATGTCTGAACTGATCTCTCTTACGCCATGCTCTCTCTGTAATGTTCTATGCTA 837
QY 841 CAACAAAATACAGCAAGGTTCCATAGATGTAACATAACATCTCTCATCCAACTGGT 900
Db 838 CAACAAAATACAGCAAGGTTCCATAGATGTAACATAACATCTCTCATCCAACTGGT 897
QY 901 ACTGGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTTGCGCTTCATTATGCCAGTCTCA 960
Db 898 ACTGGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTTGCGCTTCATTATGCCAGTCTCA 957
QY 961 TCATTACCGTGTGCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1020
Db 958 TCATTACCGTGTGCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1017
QY 1021 GCTCCAAAAGAAAGGACAGGAATCTTTCGAAGGATCACCAGGATGCTGCTGTGTGTGG 1080

Qy	541	TTTTCAACCTTGTCTCTGGCAGATGCCCTTAGCCACAGGTACCGTGCCTTCCAGAGTGTGA	600
Db	538	TTTTCAACCTTGTCTCTGGCAGATGCCCTTAGCCACAGGTACCGTGCCTTCCAGAGTGTGA	597
Qy	601	ATTACCTTAATGGGAACATGGCCATTTTGGAAACCATCTTTCCAGATAGTATCTCCATAG	660
Db	598	ATTACCTTAATGGGAACATGGCCATTTTGGAAACCATCTTTCCAGATAGTATCTCCATAG	657
Qy	661	ATTACTATAACATGTTCAACGACATATTCACCCCTCTGCACCATGAGTGTGTATCGATACA	720
Db	658	ATTACTATAACATGTTCAACGACATATTCACCCCTCTGCACCATGAGTGTGTATCGATACA	717
Qy	721	TTGCAGTCTGCGCACCCGTGTAAAGCCCTTAGATTTCCCGTACTCTCCCGAAATGCCAAATTA	780
Db	718	TTGCAGTCTGCGCACCCGTGTAAAGCCCTTAGATTTCCCGTACTCTCCCGAAATGCCAAATTA	777
Qy	781	TCAATGTCTCAACTGTGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTAATGTTTCATGGCTA	840
Db	778	TCAATGTCTGCAACTGTGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTAATGTTTCATGGCTA	837
Qy	841	CAACAAATAACAGGCAAGGTTCCATAGATGTACAATACTCTCTCATCCCAACCTGGT	900
Db	838	CAACAAATAACAGGCAAGGTTCCATAGATGTACAATACTCTCTCATCCCAACCTGGT	897
Qy	901	ACTGGGAAAACCTCGTGAAGATCTGTGTTTTTCATCTTCGCGCTTCATTTATGCCAGTGTCTCA	960
Db	898	ACTGGGAAAACCTCGTGAAGATCTGTGTTTTTCATCTTCGCGCTTCATTTATGCCAGTGTCTCA	957
Qy	961	TCATTTACCGTGTGCTATTTGGACTGATGATCTTTGGCCCTCAAGAGTGTCCGCATGCTCTCTG	1020
Db	958	TCATTTACCGTGTGCTATTTGGACTGATGATCTTTGGCCCTCAAGAGTGTCCGCATGCTCTCTG	1017
Qy	1021	GCTCCAAAGAAAAGGACAGGAATCTTCGAAAGGATCACGAGATGGTCTCGTGGTGGTGG	1080
Db	1018	GCTCCAAAGAAAAGGACAGGAATCTTCGAAAGGATCACGAGATGGTCTCGTGGTGGTGG	1077
Qy	1081	CTGTGTTTCATCGTCTGTGACTGCCAATTCACATTTACGTCATCATTTAAAGCCTTGGTTA	1140
Db	1078	CTGTGTTTCATCGTCTGTGACTGCCAATTCACATTTACGTCATCATTTAAAGCCTTGGTTA	1137
Qy	1141	CAATCCCAAGAAACTACGTTCCAGACTGTCTTCTGGCACTCTCTGCAATTCGCTTAGGTTACA	1200
Db	1138	CAATCCCAAGAAACTACGTTCCAGACTGTCTTCTGGCACTCTCTGCAATTCGCTTAGGTTACA	1197
Qy	1201	CAAAACAGTGTGCTCAACCCAGTCTTTATGATTTCTGGATGAAAACTTCAAAACGATGCT	1260
Db	1198	CAAAACAGTGTGCTCAACCCAGTCTTTATGATTTCTGGATGAAAACTTCAAAACGATGCT	1257
Qy	1261	TCAGAGAGTCTGTATCCCAACCTCTTCCAACTTTGAGCAACAAATCCCACTCGAATTC	1320
Db	1258	TCAGAGAGTCTGTATCCCAACCTCTTCCAACTTTGAGCAACAAATCCCACTCGAATTC	1317
Qy	1321	GTCAAGAACACTAGAGACACCCCTCCACGGCCAAATACAGTGGATAGAACTTAATCATCAGC	1380
Db	1318	GTCAAGAACACTAGAGACACCCCTCCACGGCCAAATACAGTGGATAGAACTTAATCATCAGC	1377
Qy	1381	TAGAAAAATCTGGAAGCAGAAACTGTCTCGTGTGCCCTAACAGGGTCTCATGCCAATCCGAC	1440
Db	1378	TAGAAAAATCTGGAAGCAGAAACTGTCTCGTGTGCCCTAACAGGGTCTCATGCCAATCCGAC	1437
Qy	1441	CTTTCACCAAGCTTAGAGCCACCATGTATCTGGNAGCAGGTTGCTTTCAGAAATGCTGAGG	1500
Db	1438	CTTTCACCAAGCTTAGAGCCACCATGTATCTGGNAGCAGGTTGCTTTCAGAAATGCTGAGG	1497
Qy	1501	AGGCTCTAAATTCCTAGGAAAGTGCCTTACTTTTAGGTTCATCCAACTCTTCTCTCTCTGG	1560
Db	1498	AGGCTCTAAATTCCTAGGAAAGTGCCTTACTTTTAGGTTCATCCAACTCTTCTCTCTCTGG	1557
Qy	1561	CCACTCTGCTCTGCACATTTAGAGGGACAGCCAAAAGTAAAGTGGAGCATTTGGAAAGGAAG	1620
Db	1558	CCACTCTGCTCTGCACATTTAGAGGGACAGCCAAAAGTAAAGTGGAGCATTTGGAAAGGAAG	1617

Qy	1521	GAATATACCA	CACCGAGGAGT	CCAGTTTGTCGAAGAC	CCCAAGTGGAA	CCAAACCCATC	1580
Db	1618	GAATATACCA	CACCGAGGAGT	CCAGTTTGTCGAAGAC	CCCAAGTGGAA	CCAAACCCATC	1677
Qy	1681	GTGCGATG	CGAATTGAAGT	CATCAAAAAGGT	GACCCCTCTGTCGTGTAAGATTTTATTTT	1740	
Db	1578	GTGCGATG	CGAATTGAAGT	CATCAAAAAGGT	GACCCCTCTGTCGTGTAAGATTTTATTTT	1737	
Qy	1741	CAAGCAAAAT	TATGACCTCA	CAAAAGAAACCA	CTCTTTGTTAAAGTTTCA	CCGCTAGTA	1800
Db	1738	CAAGCAAAAT	TATGACCTCA	CAAAAGAAACCA	CTCTTTGTTAAAGTTTCA	CCGCTAGTA	1797
Qy	1801	ACACATAAAG	TAAATGCTAC	CTCGATCAAA	GACACCTTGAATGGAAGGTC	CCGAGTCTTTT	1860
Db	1798	ACACATAAAG	TAAATGCTAC	CTCGATCAAA	GACACCTTGAATGGAAGGTC	CCGAGTCTTTT	1857
Qy	1861	TAGTGT	TTTTTGC	CAAGGGAATGA	ATCCATATTTCTATTTTAGACTTTTAACTTCA	CAACTTAA	1920
Db	1858	TAGTGT	TTTTTGC	CAAGGGAATGA	ATCCATATTTCTATTTTAGACTTTTAACTTCA	CAACTTAA	1917
Qy	1921	AAATTAGCAT	CTGGCTAAGG	CATCATTTTCA	CCCTCCATTTTCTTGTTTGTGTTATTTGTTTAAA	1980	
Db	1918	AAATTAGCAT	CTGGCTAAGG	CATCATTTTCA	CCCTCCATTTTCTTGTTTGTGTTATTTGTTTAAA	1977	
Qy	1981	AAAAATAAC	ATCATCTCTTTT	CATCTAGCTCC	ATAATTGCAAGGGAAGAGATTAGCATGAAAGG	2040	
Db	1978	AAAAATAAC	ATCATCTCTTTT	CATCTAGCTCC	ATAATTGCAAGGGAAGAGATTAGCATGAAAGG	2037	
Qy	2041	TAATCTG	AAACACAG	TCATGTGTC	CAACTGTGAGAAAGGTTGATTTCTCATCAGCTTNC	AAAATA	2100
Db	2038	TAATCTG	AAACACAG	TCATGTGTC	CAACTGTGAGAAAGGTTGATTTCTCATCAGCTTNC	AAAATA	2097
Qy	2101	CTTCCAAAG	AGTCAATCATGGG	GATTTTTTCA	TTCTTTAGGCTTTTCA	TGTGTTGTTCTCTCG	2160
Db	2098	CTTCCAAAG	AGTCAATCATGGG	GATTTTTTCA	TTCTTTAGGCTTTTCA	TGTGTTGTTCTCTCG	2157
Qy	2161	AATTC	2165				
Db	2158	AATTC	2162				

```

RESULT 10
US-10-080-917-12
; Sequence 12, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2149
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-12

```

Query Match	96.9%;	Score 2097.4;	DB 5;	Length 2149;
Best Local Similarity	99.4%;	Pred. No. 0;		
Matches 2136; Conservative	0;	Mismatches	8;	Indels 5; Gaps 3;

[illegible]


```
; APPLICANT: XU, Yuming; DUGGAN, Brendan M.;
; APPLICANT: HONCHELL, Cynthia D.; KALLICK, Deborah A.;
; APPLICANT: BAUGHN, Mariah R.; TANG, Y.Tom;
; APPLICANT: YUE, Henry; BANDMAN, Olga;
; APPLICANT: JONES, Karen Anne; BECHA, Shanya D.;
; APPLICANT: TRAN, Uyen K.; AU-YOUNG, Janice K.;
; APPLICANT: GRIFFIN, Jennifer A.; ZEBARADIAN, Yeganeh;
; APPLICANT: LEE, Ernestine A.; ELLIOTT, Vicki S.;
; APPLICANT: THANGAVELU, Kavitha; RAMKUMAR, Jayalaxmi;
; APPLICANT: LU, Yan; HAFALIA, April J.A.;
; APPLICANT: CHAWLA, Narinder K.; ISON, Craig H.
; APPLICANT: THORNTON, Michael B.; SWARNAKAR, Anita;
; APPLICANT: YANG, Junning; RICHARDSON, Thomas W.;
; APPLICANT: EMERLING, Brooke M.; YAO, Monique G.;
; APPLICANT: COCKS, Benjamin G.; SANJANWALA, Bharati;
; APPLICANT: MASON, Patricia M.; GANDHI, Ameena R.;
; APPLICANT: LI, Joana X.; FORSYTHE, Ian J.;
; APPLICANT: GURURAJAN, Rajagopal; GIETZEN, Kimberly J.
; TITLE OF INVENTION: RECEPTORS AND MEMBRANE-ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0992 USN
; CURRENT APPLICATION NUMBER: US/10/477,714
; CURRENT FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: PCT/US02/15899
; PRIOR FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/292,197
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/297,012
; PRIOR FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 60/300,582
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/300,495
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/301,992
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/340,542
; PRIOR FILING DATE: 2001-12-14
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PERL Program
; SEQ ID NO 33
; LENGTH: 2279
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: 7580043CB1
US-10-477-714-33

Query Match          96.4%; Score 2086.4; DB 8; Length 2279;
Best Local Similarity 99.3%; Pred: No. 0;
Matches 2136; Conservative 0; Mismatches 8; Indels 6; Gaps 4;

Qy 9  GGCTATAGCGCAGAGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGACCGTCTCTC 68
Db 1  GGCTATAGCGCAGAGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGACCGTCTCTC 60

Qy 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGCGACGGCGAAAG 128
Db 61 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGCGACGGCGAAAG 120

Qy 129 GAAGCGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAGC 188
Db 121 GAAGCGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAGC 180

Qy 189 GGTGCCCGCCGGCGCTCAGTACCATGACAGCAGCGCTGCGCCCGCCAGCAACGCCAGCAAT 248
Db 181 GGTGCCCGCCGGCGCTCAGTACCATGACAGCAGCGCTGCGCCCGCCAGCAACGCCAGCAAT 240

Qy 249 TGCATGATGCTTGGCGTACTCAAGTTGCTCCCGACGACCGCCCGGTTCTGGGTC 308
Db 241 TGCATGATGCTTGGCGTACTCAAGTTGCTCCCGACGACCGCCCGGTTCTGGGTC 300

Qy 309 AACTTGTCCCACTTAGATGGCAACTGTGTCGACCCATCGGTCCGAAACCGCACCAACCTG 368
Db 1378 CTGGAAGCAGAAACTGCTCGGTTGCCCTTAAACAGGGTCTCATGCCATTCGACCTTCACCA 1437
```


[illegible]


```
Qy 273 AGTTGCTCCCGACCCAGCCCGGTTCCCTGGGTCAACTTGTCCCACTTAGATGGCAAC 332
Db 61 AGTTGCTCCCGACCCAGCCCGGTTCCCTGGGTCAACTTGTCCCACTTAGATGGCAAC 120
Qy 333 CTGTCCGACCCATGCGGTCCGAACCGCACCAACCTTGGGCGGAGAGACAGCCTGTGCCCT 392
Db 121 CTGTCCGACCCATGCGGTCCGAACCGCACCAACCTTGGGCGGAGAGACAGCCTGTGCCCT 180
Qy 393 CCGACCGGCGGAGTCCCTCCATGATCAGCGCATCAGGCATCAGATCGGCCCTCTACTCCATC 452
Db 181 CCGAC- --CGGCAGTCCCTCCATGATCAGCGCATCAGGCATCAGGCCCTCTACTCCATC 237
Qy 453 GTGTGCGGTGGGCTCTTGGAAACTTCTCTGGTCAATGATGATGATGATGATGATGATGATGAT 512
Db 238 GTGTGCGGTGGGCTCTTGGAAACTTCTCTGGTCAATGATGATGATGATGATGATGATGATGAT 297
Qy 513 AAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCCCTTAGCC 572
Db 298 AAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCCCTTAGCC 357
Qy 573 ACCAGTACCCCTGCCCTTCCAGAGTGTGAATTACCTAATGGGAAACATGGGCCAATTTGGAACC 632
Db 358 ACCAGTACCCCTGCCCTTCCAGAGTGTGAATTACCTAATGGGAAACATGGGCCAATTTGGAACC 417
Qy 633 ATCCTTTGCAAGATAGTATCTCCATAGATTACTATACATGTTTCAACGATATTCACC 692
Db 418 ATCCTTTGCAAGATAGTATCTCCATAGATTACTATACATGTTTCAACGATATTCACC 477
Qy 693 CTCTGCACCATGAGTGTGATCGATACATTTGAGTCTGCCACCCCTGTCAAGGCCCTTAGAT 752
Db 478 CTCTGCACCATGAGTGTGATCGATACATTTGAGTCTGCCACCCCTGTCAAGGCCCTTAGAT 537
Qy 753 TTCCGTAATCTCCCGAAATGCCAAATATCAATGTCTGCAACTGGATCCTCTCTTCAGCC 812
Db 538 TTCCGTAATCTCCCGAAATGCCAAATATCAATGTCTGCAACTGGATCCTCTCTTCAGCC 597
Qy 813 ATTGCTCTCTGTAATGTTATGCTGCTACAAATATCAATGTCTGCAACTGGATCCTCTCTTCAGCC 872
Db 598 ATTGCTCTCTGTAATGTTATGCTGCTACAAATATCAATGTCTGCAACTGGATCCTCTCTTCAGCC 657
Qy 873 ACACTAACATTTCTCATCTCAACCTGTGTAATGCTGGGAAACCTCGTGAAGATCTGTGTTTTTC 932
Db 658 ACACTAACATTTCTCATCTCAACCTGTGTAATGCTGGGAAACCTCGTGAAGATCTGTGTTTTTC 717
Qy 933 ATCTTCGCTTCATTAATGCAAGTGTCTCATATTAACCGTGTGCTATGGACTGATGATCTTG 992
Db 718 ATCTTCGCTTCATTAATGCAAGTGTCTCATATTAACCGTGTGCTATGGACTGATGATCTTG 777
Qy 993 CGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAGAAAGGACAGGAATCTTCGAGG 1052
Db 778 CGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAGAAAGGACAGGAATCTTCGAGG 837
Qy 1053 ATCACAGAGTGTGCTGGTGGTGGTGTGTTTCATGCTGCTGGACTCCCATTCAC 1112
Db 838 ATCAAGAGATGGTGTGCTGGTGGTGGTGTGTTTCATGCTGCTGGACTCCCATTCAC 897
Qy 1113 ATTTACGTCATCATTAAGACCTTGGTTACAATCCAGAAACTACGTTCCAGACTGTTTCT 1172
Db 898 ATTTACGTCATCATTAAGACCTTGGTTACAATCCAGAAACTACGTTCCAGACTGTTTCT 957
Qy 1173 TGGCACTTCTGATGCTCTAGGTTTACAAACAGCTGCCCTCAACCCAGTCTCTTTATGCA 1232
Db 958 TGGCACTTCTGATGCTCTAGGTTTACAAACAGCTGCCCTCAACCCAGTCTCTTTATGCA 1017
Qy 1233 TTTCTGGATGAAACTTCAAAAGTGTCTTCAAGAGTGTCTGATCCCAACCTCTTCCAAC 1292
Db 1018 TTTCTGGATGAAACTTCAAAAGTGTCTTCAAGAGTGTCTGATCCCAACCTCTTCCAAC 1077
Qy 1293 ATTGAGCAACAAACTCCACTCGAATTCGTGAGAACACTAGAGACCAACCCCTCCACGGCC 1352
Db 1078 ATTGAGCAACAAACTCCACTCGAATTCGTGAGAACACTAGAGACCAACCCCTCCACGGCC 1137
```

```
Qy 1353 AATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAAAATGCTCTCGTTG 1412
Db 1138 AATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAAAATGCTCTCGTTG 1197
Qy 1413 CCCTAA 1418
Db 1198 CCCTAA 1203
```

Search completed: January 9, 2006, 15:16:46
Job time : 1715.9 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:50:21 : Search time 309,944 Seconds
(without alignments)
5092.624 Million cell updates/sec

Title: US-09-883-839-1-401-THEN-GGC
Perfect score: 2165
Sequence: 1 ggaattccggctataggcag.....gtggtttcttcgaattc 2165

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues 9275266

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA.New.*
1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3.*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	2147	99.2	2162	7	US-11-127-877-18 Sequence 18, Appl
2	459.8	21.2	1423	7	US-11-136-527-2066 Sequence 2066, Ap
3	362.6	16.7	2955	7	US-11-136-527-2954 Sequence 2954, Ap
4	233	10.8	8372	7	US-11-136-527-684 Sequence 684, App
5	197.8	9.1	2116	7	US-11-136-527-3819 Sequence 3819, Ap
C	193.8	9.0	1685	6	US-10-750-185-36071 Sequence 36071, A
C	193.8	9.0	1685	6	US-10-750-623-36071 Sequence 36071, A
8	187.6	8.7	1238	6	US-10-995-561-320 Sequence 320, App
9	187.6	8.7	1498	6	US-10-995-561-320 Sequence 320, App
10	187.6	8.7	86131	6	US-10-995-561-13298 Sequence 13298, A
11	177	8.2	3635	7	US-11-136-527-2101 Sequence 2101, Ap
12	172.6	8.0	1384	7	US-11-136-527-2159 Sequence 2159, Ap
13	158.8	7.3	1560	7	US-11-136-527-3742 Sequence 3742, Ap
14	158.8	7.3	1865	6	US-10-533-355-9 Sequence 9, Appli
C	151.8	7.0	856	6	US-10-750-185-62128 Sequence 62128, A
C	151.8	7.0	856	6	US-10-750-623-62128 Sequence 62128, A
C	143.4	6.6	1224	6	US-10-750-185-40492 Sequence 40492, A
C	143.4	6.6	1224	6	US-10-750-623-40492 Sequence 40492, A
19	125.6	5.8	600	7	US-11-136-527-6162 Sequence 6162, Ap
20	112.4	5.2	3985	7	US-11-136-527-3404 Sequence 3404, Ap
21	93.4	4.3	3219	7	US-11-136-527-4059 Sequence 4059, Ap
22	93.4	4.3	3295	7	US-11-136-527-3736 Sequence 3736, Ap
C	92.6	4.3	706	6	US-10-750-185-32790 Sequence 32790, A

ALIGNMENTS

RESULT 1
US-11-127-877-18
; Sequence 18, Application US/11127877
; Publication NO. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Merchiers, Pascal G.
; APPLICANT: Hoffmann, Marcel
; APPLICANT: Spittaels, Koenraad F. F.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting
; FILE REFERENCE: P27, 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 18
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: n is a, c, g, or t
US-11-127-877-18

Query Match 99.2%; Score 2147; DB 7; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;

QY	1	GGAAATTCGGCTATAGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA	60
DB	1	GGAAATTCGGCTATAGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA	60
QY	61	CGCTCTCTCTGTCTCAGCCAGGACTGGTTCTGTGAAGAAACAGCAGGAGCTGTGGCAGC	120
DB	61	CGCTCTCTCTGTCTCAGCCAGGACTGGTTCTGTGAAGAAACAGCAGGAGCTGTGGCAGC	120

QY 121 GCGAAAGGAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGTGCTCCTGGCTACCT 180
DB 121 GCGAAAGGAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGTGCTCCTGGCTACCT 180
QY 181 GCGACAGCGGTGCGCGCGCGCGCTGAGTACCATGAGACAGAGCGCTCCGCCACGAAAG 240
DB 181 GCGACAGCGGTGCGCGCGCGCGCTGAGTACCATGAGACAGAGCGCTCCGCCACGAAAG 240
QY 241 CCAGCAATTGCACTGATGCTTGGGCTACTCAAGTTGCTCCCGACGACCCAGCGCCCGTT 300
DB 241 CCAGCAATTGCACTGATGCTTGGGCTACTCAAGTTGCTCCCGACGACCCAGCGCCCGTT 300
QY 301 CTTGGGTCAACTGTCACCTTAGATGCAACCTGTCGACCGCATGCGGTCCGAAACCGCA 360
DB 301 CTTGGGTCAACTGTCACCTTAGATGCAACCTGTCGACCGCATGCGGTCCGAAACCGCA 360
QY 361 CCAACCTGGGGGAGACAGCGCTGTCCTCCGACCGGGGAGTCCCTCCATGATCA 420
DB 361 CCAACCTGGGGGAGACAGCGCTGTCCTCCGACCGGGGAGTCCCTCCATGATCA 417
QY 421 CGGCCATCAGATCATGCGCTCTACTCCATCGTGTGCGTGGGGCTCTTCGAAACT 480
DB 418 CGGCCATCAGATCATGCGCTCTACTCCATCGTGTGCGTGGGGCTCTTCGAAACT 477
QY 481 TCCTGGTCAATGATGATGTCAGATACACCAAGATGAAGCTGCCACCAACATCTACA 540
DB 478 TCCTGGTCAATGATGATGTCAGATACACCAAGATGAAGCTGCCACCAACATCTACA 537
QY 541 TTTTCAACCTTGTCTCGGACAGTGGCTTAGCCACAGTACCTCGCCCTTCAGAGTGTGA 600
DB 538 TTTTCAACCTTGTCTCGGACAGTGGCTTAGCCACAGTACCTCGCCCTTCAGAGTGTGA 597
QY 601 ATTACTTAATGGGAACATGGCCATTTGGAACCATCTCTTTGCAAGATAGTATCCATAG 660
DB 598 ATTACTTAATGGGAACATGGCCATTTGGAACCATCTCTTTGCAAGATAGTATCCATAG 657
QY 661 ATTACTTAATGGGAACATGGCCATTTGGAACCATCTCTTTGCAAGATAGTATCCATAG 720
DB 658 ATTACTTAATGGGAACATGGCCATTTGGAACCATCTCTTTGCAAGATAGTATCCATAG 717
QY 721 TTGCAGTCTGCCACCTGCTCAAGGCTTAGATTTCCGCTACTCCCGAAATGCCAAATTA 780
DB 718 TTGCAGTCTGCCACCTGCTCAAGGCTTAGATTTCCGCTACTCCCGAAATGCCAAATTA 777
QY 781 TCAATGTCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCCGTAAATGTCATGGCTA 840
DB 778 TCAATGTCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCCGTAAATGTCATGGCTA 837
QY 841 CAACAAAATACAGCAAGGTTCCATAGATTGTACACTTAACATTTCTCTCATCCAACTGGT 900
DB 838 CAACAAAATACAGCAAGGTTCCATAGATTGTACACTTAACATTTCTCTCATCCAACTGGT 897
QY 901 ACTGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATTATGCGAGTGTCA 960
DB 898 ACTGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATTATGCGAGTGTCA 957
QY 961 TCATTACCGTGTGCTATGAGCTAGTATCTTGGCGCTCAAGAGTGTCCGATGCTCTGTG 1020
DB 958 TCATTACCGTGTGCTATGAGCTAGTATCTTGGCGCTCAAGAGTGTCCGATGCTCTGTG 1017
QY 1021 GCTCCAAAAGAAAGACAGGAATCTTCAAGGATCACCAGATGGTGTGTTGGTGG 1080
DB 1018 GCTCCAAAAGAAAGACAGGAATCTTCAAGGATCACCAGATGGTGTGTTGGTGG 1077
QY 1081 CTGTGTTCACTCGTCTGCTGGAATCCCATTCATTTAGTCTCATTAAGACCTTGGTTA 1140
DB 1078 CTGTGTTCACTCGTCTGCTGGAATCCCATTCATTTAGTCTCATTAAGACCTTGGTTA 1137
QY 1141 CAATCCCAAGAACTACGTTCCAGACTGTTTCTTGCACTTCTGCACTTCTAGGTTACA 1200
DB 1138 CAATCCCAAGAACTACGTTCCAGACTGTTTCTTGCACTTCTGCACTTCTAGGTTACA 1197
QY 1201 CAACAGCTGCTCAACCCAGTCTTTTATGATTTCTGATGAAACTTCAACGATGCT 1260

DB 1198 CAACAGCTGCTCAACCCAGTCTTTTATGATTTCTGGATGAAACTTTCACACGATGCT 1257
QY 1261 TCAGAGAGTTCTGTATCCCAACTCTTCCAACTGAGCAACAAACTCCACTCGAAATTC 1320
DB 1258 TCAGAGAGTTCTGTATCCCAACTCTTCCAACTGAGCAACAAACTCCACTCGAAATTC 1317
QY 1321 GTCAAGACACTAGAGACACCCCTCCAGGCGCAATACAGTGGATAGACTAATCATCAGC 1380
DB 1318 GTCAAGACACTAGAGACACCCCTCCAGGCGCAATACAGTGGATAGACTAATCATCAGC 1377
QY 1381 TAGAAAACTTGAAGACAGAACTGCTCGTTGCGCTTAAACAGGGTCTCATGCACTTCCGAC 1440
DB 1378 TAGAAAACTTGAAGACAGAACTGCTCGTTGCGCTTAAACAGGGTCTCATGCACTTCCGAC 1437
QY 1441 CTTCAACAAGCTTAGAAGCCACCATGATATGTGGAAGCAGGTTGTTCAAGAATGTGAGG 1500
DB 1438 CTTCAACAAGCTTAGAAGCCACCATGATATGTGGAAGCAGGTTGTTCAAGAATGTGAGG 1497
QY 1501 AGGCTCTAATTTCTTAGAAGAGCGCTACTTTTAGGTCAATCCAACTCTTCTCTCTGG 1560
DB 1498 AGGCTCTAATTTCTTAGAAGAGCGCTACTTTTAGGTCAATCCAACTCTTCTCTCTGG 1557
QY 1561 CCACCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAG 1620
DB 1558 CCACCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAG 1617
QY 1621 GAATATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCCATC 1680
DB 1618 GAATATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCCATC 1677
QY 1681 GTGTTATGTGAATTTGAAGTCAATCAATAAGGTGACCTTCTGTCTCTGTAAGATTTATTTT 1740
DB 1678 GTGTTATGTGAATTTGAAGTCAATCAATAAGGTGACCTTCTGTCTCTGTAAGATTTATTTT 1737
QY 1741 CAAGCAATATTTATGACCTCAACAAAGAGAAACCATCTTTTGTGTAAGTTCACCGTAGTA 1800
DB 1738 CAAGCAATATTTATGACCTCAACAAAGAGAAACCATCTTTTGTGTAAGTTCACCGTAGTA 1797
QY 1801 ACACATAAGTAAATGCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTT 1860
DB 1798 ACACATAAGTAAATGCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTT 1857
QY 1861 TAGTGTTTTTCAGAGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCACTTAA 1920
DB 1858 TAGTGTTTTTCAGAGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCACTTAA 1917
QY 1921 AATTAGCATCTGGCTAAGGATCAATTTTCACTCTCATCTTCTGTTTGTATGTTTAAA 1980
DB 1918 AATTAGCATCTGGCTAAGGATCAATTTTCACTCTCATCTTCTGTTTGTATGTTTAAA 1977
QY 1981 AAAAATAACATCTCTTTTCTATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAG 2040
DB 1978 AAAAATAACATCTCTTTTCTATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAG 2037
QY 2041 TAATCTGAAACACAGTCAATGTGTCACTGTAGAAAGGTTGATTTCTCATGCACTTCAATA 2100
DB 2038 TAATCTGAAACACAGTCAATGTGTCACTGTAGAAAGGTTGATTTCTCATGCACTTCAATA 2097
QY 2101 CTTCCAAAGAGTCAATGCGGGATTTTTCATCTTAGGCTTTTCAAGTGTGTTGTTCTCTGG 2160
DB 2098 CTTCCAAAGAGTCAATGCGGGATTTTTCATCTTAGGCTTTTCAAGTGTGTTGTTCTCTGG 2157
QY 2161 AATTCT 2165
DB 2158 AATTCT 2162

```
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2066
; LENGTH: 1423
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2066

Query Match      21.2%; Score 459.8; DB 7; Length 1423;
Best Local Similarity 66.7%; Pred. No. 9.7e-130;
Matches 672; Conservative 0; Mismatches 332; Indels 3; Gaps 1;

QY 327 GCGAACCTGTCGACCCATGCGGTGCGAACCAGCCGACCACTGGCGGGGAGACAGCCTG 386
DB 154 GCGAACCTGTCGACACCTTCCTAGCGCTTCCCGAGTGCAGGCGCAATGCGTGGGG 213
QY 387 TCGCCCTCCGACCGGGCAGTCCCTCCATGATCAGCGCATCAGCATCATGCGCCCTCTAC 446
DB 214 TCGCGGGCGCGCGAGTCCCTCGTCCCTGGCTGGCCATCGCCATCACCAGCGTCTTAC 273
QY 447 TCATCGTGTGGTGGTGGGCTCTTCGGAATCTTCCTGGTCAATGATGATGATGATGATG 506
DB 274 TCGGCTGTGTGGCTGGGCTGCTGGCAAGTGTGCTGATGTTGGAATCGTCCGG 333
QY 507 TACACAAGATGAAGACTGCGACCAACATCATCTATCTTTCAACTTGTCTGGCAGATGCC 566
DB 334 TACACTAAGCTGAAGACGCGCCACCAATCTATCTTCAATCTGGCCCTTGGCGGATCG 393
QY 567 TTAGCCACCATGACCTGCGCTTCCAGAGTGTGAATTAATGGAACATGGCCATTT 626
DB 394 CTGGCCACCATGACATCTGCGCTTCCAGAGCGCCAGTACTGATGGAACATGGCGTTC 453
QY 627 GGAACCATCTTTGCAAGATAGTGTCTCCATAGATTACTATAACATGTTTCAACAGCATA 686
DB 454 GGAAGCTGTGTGCAAGGCTGTGCTCTCCATGACTACTACAAATGTTTCAACAGCATA 513
QY 687 TTCACCTCTGCAACCATGATGTTGATGATGATGATGATGATGATGATGATGATGATGATG 746
DB 514 TTCACCTCTGCAACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 573
QY 747 TTAGATTTCCGTTACTCCCGAATGCCAAATTTATCAATGCTGTCGAACTGGATCTCTCT 806
DB 574 TTGGACTTCCGGACACCGGCGCAAGGCGCAAGCTGATCAACATATGCAATCTGGGTCTT 633
QY 807 TCAGCCATTGGTCTTCTGTAATGTTTATGCTGCTACCAACAAATATACAGCAAGGTTCCATA 866
DB 634 TCAGGTGTGGGTGTCCTCCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 693
QY 867 GATTGTACACTAACTCTCTCATCCAACTGTTGATGATGATGATGATGATGATGATGATGATG 926
DB 694 GTATGACGCTCCAGTTCCCGAGCCCGAGCTGTTGATGATGATGATGATGATGATGATGATG 753
QY 927 GTTTTCATCTTGGCTTCATATGCGGAGTCTCTCATATTAACCTGATGATGATGATGATGATG 986
DB 754 GTGTTCCTCTTCCGCTTCCGCTTCCGCTTCCGCTTCCGCTTCCGCTTCCGCTTCCGCTT 813
QY 987 ATCTTGGCTCTCAAGAGTGTCCGATGCTCTCTGGCTTCCAAAGAAAGGACAGGAATCTT 1046
DB 814 CTGCTGGCTGTGGCAGCGTGGCTGTCTGGCTTCCAAAGGAGGAGGACCGAGCTG 873
QY 1047 CGAAGGATCACCAGGATGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1106
DB 874 CGGCGCATCAGCGCATGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 933
QY 1107 ATTCACATTAAGCTCATCAATAAGCCTTGGTTACAATC---CCAGAACTACGTTCCAG 1163
```

RESULT 3

```
US-11-136-527-2954
; Sequence 2954, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2954
; LENGTH: 2955
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2954
```

```
Query Match      16.7%; Score 362.6; DB 7; Length 2955;
Best Local Similarity 62.6%; Pred. No. 8.7e-100;
Matches 560; Conservative 3; Mismatches 332; Indels 0; Gaps 0;

QY 427 TCACATCATGCGCCCTCTACTCCATCGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 486
DB 329 TCACATCGTGGGGCTCTACTTTGGCTGTGTGATCGGGGGGCTCTCTGGGGAATGCTCTCG 388
QY 487 TCATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 546
DB 389 TCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 448
QY 547 ACCTTGTCTTGGCAGATGCTTTAGCCACGATPACCTTCCCTTCCAGAGTGTGAATACC 606
DB 449 ATCTGGCACTGGCTGATACCTTGTCTTGTCTAACACTGGCTTCCCTTCCAGSGSACAGATCC 508
QY 607 TAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATGATGATGATGATGATGATGATG 666
DB 509 TACTGGGCTTCTGGGCAATTTGGGAATGCACTCTGCAAGACTGTCTATGCTATGCACTACT 568
QY 667 ATAAATGTTTACACGATATTCACCTCTGCACCATGATGATGATGATGATGATGATGATG 726
DB 569 ACAACATGTTTACAGCACTTTTACTCTGACCGCCATGAGCGTAGACCGCTATGTCGCTA 628
QY 727 TCTGCCACCTCTCAAGGCTTTAGATTTCCGTAATCTCCCGAAATGCAAAATTTATCAATG 786
DB 629 TCTGCCACCTCTCCGTGGCTTGTGATGTTTGGGACATCCAGCAAGAGCCAGGCTGTAAATG 688
QY 787 TCTGCAACTGGATGCTCTCTTTCAGGCAATGCTTCTCTGTAATGTTGATGATGATGATGATG 846
DB 689 TGGCCATATGGGCGCTTGGCTTTCAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 748
QY 847 AATACAGGCAAGGTTCCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 906
DB 749 AAGTGAAGATGAAGAGATCGAGTGCCTGGTGGAGATGCTTCCCTTCCCTCTCAGGACTATG 808
```

Qy	907	AAAACCTCGTCAAGATCTGTGTTTTCACTTCGCGCTTCATATATGCCAGTCTCATCATTA	966
Db	809	GCCCTGATTCCGCATCTGCATCTCTCTTTTTCCTTCATCATCCCTGTTGATCATCT	868
Qy	967	CCGTGTCTATGGACTGATGATCTTTCGCGCTCAAGAGTGTCCGCATGCTCTCTGGCTCCA	1026
Db	869	CTGTCTGTACAGCCTCANGATTCGACGACTTCGTGGTGTCCGTCTCTTYCAGGCTCCC	928
Qy	1027	AAGAAAAGCAGGAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGGTGGCTGTGT	1086
Db	929	GGGAGAAGGACCGAAACCTCGCGGTATCACTCGACTGGTCTGGTAGTGGTGGCTGTGT	988
Qy	1087	TCATCGTCTGTGCACTGCCAATTCACATTTAGTCATCATTAAGCCTTGGTTACAATCC	1146
Db	989	TTGTGGGCTGTGACGCGCTGTGCAGGTGTTTGTCTCGGTTCAAGGACTGGGTGTTCAGC	1048
Qy	1147	CAGAAACTACGTTCCAGACTGTTTTCTTGGCACTTCTGCATTTGCTCTAGGTTTACACAAAC	1206
Db	1049	CAGGTATGAGACTGCGAGTTGCCATCTCGGCTTCTGCACAGCCCTGGGCTATGTCAACA	1108
Qy	1207	GCTGCCCTCAACCCAGTCCCTTTATGCATTTCTGGATGAAAACTTCAACAGATGCTTCAGAG	1266
Db	1109	GTTGTCTCAATCCCATTTCTCTATGCTTTCTGGATGAGAACTTCAAGGCCCTGCTTTAGAA	1168
Qy	1267	AGTTCTGTATCCCAACCTCTTCCAAATTTGAGCAACAAAACTCCTCAATTCG	1321
Db	1169	AGTTCTGTGTGCTTCACTCCCTGCACCGGAGATGCAGGTTTCTGTATCTGTGTGG	1223

```

RESULT 4
US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372.
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-684

```

	Query Match	10.8%	Score 233;	DB 7;	Length 8372;
	Best Local Similarity	56.4%;	Pred. No. 8e-60;		
	Matches 513;	Conservative 0;	Mismatches 315;	Indels 81;	Gaps 1;
Qy	494	TGTGATTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTGC	553		
Db	5100	TGTCCTCTCAGGGCACACCAAGATGAAGACAGCTACCAACATTTACATATTTAATCTGGC	5159		
Qy	554	TCGTGGCAGATGCCCTTAGGCCACCAGTACCCCTGCCCTCCAGAGTGTGAATTTACCTAATGGG	613		
Db	5160	ACTGGCTGATACCCCTGTGCTTTGTAACTGCCCTCCAGGGCACAGACATCTCTACTGGG	5219		
Qy	614	AACATGGCCATTTTGGAAACCATCTTTTCCAGATAGTGATCTCCATAGATTAATCTATAACAT	673		
Db	5220	CTTCTGGCCATTTGGGGAATGCATCTCTGCAAGACTGTCTATGCTATCGACTACACAT	5279		
Qy	674	GTTCCACGACGATATTCAACCTCTGSCACCATGAGTGTGTGATCGATACATTTGCAGCTGCGCA	733		
Db	5280	GTTTACGAGCATTTTACTCTGACCGCCATGACGGGTAGACCGCTATGTGCGCTATCTGCCA	5339		
Qy	734	CCCTGTCAAGCCCTTAGATTCCGTACTCCCGGAATGCCAAATTTATCAATGTCTGCAG	793		
Db	5340	CCCTATCCGTCGCCCTTGATGTTTCGAGCATCCAGCAAGCCAGCGCTGTTAATGTGGCCAT	5399		

QY 794 CTGGAATCCTCTCTTTACGCCAATTTGGTCTTCTGTAATAGTTTCAATGGCTACACAACAAA----- 848

Db 5400 ATGGGCCCTGGCTTCAGTGGTTGGTGTTCCTGTTGGCATCATGGGTTCAGCACAGATGGA 5459

QY 849 ----- 848

Db 5460 AGATGAAGGTCAAGTGGGTGGTCTCTCTCCCTGACTCATTAGTTTCCATAGTTTCCATGGTTCCTTGGCTG 5519

QY 849 -----TACAGGCAAGGTTCCATAGATTTGTACACTAACATTTCTCTCATCC 892

Db 5520 GTCCCTCTGACCCCAATTTCTCTCTCGAGAGATCGATGCCGTGGTGAGATCCCTGCCCC 5579

QY 893 AACCTGGTACTGGGAAAACTCTGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTAATGCC 952

Db 5580 TCAGGACTATTATGGGGCCCTGTATTCCGCCATCTGCATCTTCTCTTTTCTTCATCATCC 5639

QY 953 AGTGCTCATCATTAACCGTGTGCTATGACATGATGATCTTGGCGCTCAAGAGTGTCCGCAT 1012

Db 5640 TGTGCTGATCATCTCTGTCTGTCTACAGCCTCATGATTCGACGACTTCGTGGTGTCCGCT 5699

QY 1013 GCTCTCTGGCTCCAAAGAAAAAGCACAGGAATCTTCGAAGGATCACAGGATGGTGTGTT 1072

Db 5700 GCITTCAGGCTCCCGGAGAGAACCGAAACCTCGCGCGTATCACTCGACTGGTGTGTT 5759

QY 1073 GGTGGTGGCTGTGTTCAATCGTCTGTGGACTCCCATTCACATTTACGTCAATTAAGC 1132

Db 5760 AGTGGTGGCTGTGTTGTGGGCTGTCTGGAGCGCTGTGCAGGTGTTTGTCTGGTTCAGG 5819

QY 1133 CTGGTTTACAATCCCAGAACTACGTTCCAGACTGTTTCTTGGCACTCTTGCATTGCTCT 1192

Db 5820 ACTGGGTGTTACGCCAGGTAGTGAGACTGCGAGTTGCCATCTCTGCGCTTCTGCACGCC 5879

QY 1193 AGGTTACACAAACAGCTGCCCTCAACCAGTCCCTTTATGCATTTCTGGATGAAACCTCAA 1252

Db 5880 GGGCTATGCAACAGTTGTCTCAATCCATTCCTATGCTTTCTCTGGATGAGAACTCAA 5939

QY 1253 ACAGTCTTCAGAGAGTTCTGTATCCCACTCTTCCAACTTGTGAGCAACAAACCTCCAC 1312

Db 5940 GGCCTGCTTTAGAAAGTTCTGCTGTGCTTCATCCCTGCACCGGAGATCAGGTTTCTGA 5999

QY 1313 TCGAATTCG 1321

Db 6000 TCGTGTCCG 6008

RESULT 5

US-11-136-527-3819

; Sequence 3819, Application US/11136527

; Publication No. US20050287570A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes

; FILE REFERENCE: 031896-041000 (AM101086)

; CURRENT APPLICATION NUMBER: US/11/136,527

; CURRENT FILING DATE: 2005-05-25

; PRIOR APPLICATION NUMBER: US 60/574,294

; PRIOR FILING DATE: 2005-05-26

; NUMBER OF SEQ ID NOS: 362830

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 3819

; LENGTH: 2116

; TYPE: DNA

; ORGANISM: Rattus norvegicus

US-11-136-527-3819

```

RESULT 5
US-11-136-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3819

Query Match          9.1%;      Score 197.8;  DB 7;  Length 2116;
Best Local Similarity 53.2%;    Pred. No. 1.7e-49;
Matches 443;  Conservative 0;  Mismatches 387;  Indels 3;  Gaps 1;

          433  TCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACATTTCCTGGTCATCT 492
          |||

```


RESULT 7

US-10-750-623-36071/c
; Sequence 36071, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: BATES, Stephen
; APPLICANT: HOLM, Tom
; APPLICANT: FANTIN, Dennis
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36071
; LENGTH: 1685
; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-623-36071

Query Match 9.0%; Score 193.8; DB 6; Length 1685;
Best Local Similarity 53.7%; Pred. No. 2.3e-48;
Matches 455; Conservative 0; Mismatches 377; Indels 15; Gaps 2;

Qy	419	CACGCCATCAGATCATGGCCCTCTACTCATCGTGGCGTGGTGGGCTCTTCGGAAA	478
Db	1345	CAGCGCTATCTCTCTTTTCATCTACTCTGGTGGTGGTGGGCTCTCTGGGAA	1286
Qy	479	CTTCTGCTCATGTATGTGTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTA	538
Db	1285	CTCATGTCTATCTACGTGATCTCTGGCTAGCGCTAGCAAGATGAAGCGCCACCACTA	1226
Qy	539	CATTTCACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCTTGGCCCTTCCAGAGTGT	598
Db	1225	CATCTCAACCTGGCCATCGCGATGAGTGTCTATGCTCAGCGTGGCCCTTCTCTGGTCA	1166
Qy	599	GAATTACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGGCAAGATGATGATCTCAT	658
Db	1165	CTCCACATGTGCTCGCCACTGGCCCTCTCGGCGCGCTACTCTGCGCCCTCTGCTCAGCGT	1106
Qy	659	AGATTACTATTAACATGTTTCCACAGCATATTCACCTCTGCAACATGAGTGTGTGATCGATA	718
Db	1105	GGACGCGATCAACATGTTTCCACGATCTACTGTCTGACTGTGCTTAGCGTGGACCGCTA	1046
Qy	719	CATTGCACTGCGCACCTGTCAAGGCTTTAGATTTTCGATCTCTCCCGAAATGCCAAAT	778
Db	1045	CGTGGCCGTGGTGCACCCCATCAAGCGCGCACGCTACCGCGCGGCCACCGTGGGCCAAGGT	986
Qy	779	TATCAATCTCTGCACTGGAATCTCTCTTACGCCATTTGGTCTTCC---TGTAAATGTTTCA	835
Db	985	GGTGAATCTGGCGTGGTGGGCTGTGCTGCTGCTCAATCTGCGCCATCTGCGGCTTCTC	926
Qy	836	GGCTACAAACAAATACAGCGAAGGTTCCATAGATTTGTACATTAACATTTCTCTCATCCAA	895
Db	925	GGCNACGGCGGCCAACACGACGCGCACGCTGGCTGCAACATGTCTATGCCGAGCCGCG	866
Qy	896	CTGTGACTCGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATATGCGCAGT	955
Db	865	CCAGCGCTGGCTGGTGGGCTTTCGTGTTGTACATTTTCTCATGAGCTTCTGCTGCGCGGT	806
Qy	956	GCTCATGATTACCGTGTGCTATGACTGATCTTGGCCCTCAAGATGTCGCCATGCT	1015
Db	805	CGGGGCCATCTGCTTGTGCTGCTGCTCATCATCGCCAAATATGCGATGTTGGGCCCTCAA	746
Qy	1016	CTCTGGCTCCAAAGAAAGGACAGGAATCTTTCGAAGGATCACCGAGTGGTGGTGGTGGT	1075
Db	745	GGCCGGCTGGCAGCGCCAGCGCTCGGAGGGCAAGATCACCTTGATGGTGGTGGTGGTGGT	686

Qy	1076	GGTGGCTGTGTTTATCTGCTGCTGGACTCCCATTCACATTTACGTCACTATTAAAGCCTT	1135
Db	685	GGTGATGGTGTGTTGTCTATCTGCTGGATGCCCTTTCTATGTGGTGCAGCTAGTCAACGTGT	626
Qy	1136	GGTTACAATCCAGAACTACAGTTTCCAGACTGTTTCTTGGCAGCTTCTGCAATTTGCTCTAGG	1195
Db	625	CGCGGACGAGCAGCGCCACGGTGA-----GCCAGCTGTGGTCACTCTCGG	578
Qy	1196	TTACACAAACAGCTGCTCAACCCAGCTCCTTTATGCAATTTCTTGATGAAACTTCAACACG	1255
Db	577	TTACGCCAACAGCTGCGCCAAACCCCATCTCTACGGCTTCTTTTCAGACAACTTCAAGCG	518
Qy	1256	ATGCTTC 1262	
Db	517	CTCTTTC 511	

RESULT 8

US-10-995-561-321
; Sequence 321, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CU001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 321
; LENGTH: 1238
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-321

Query Match 8.7%; Score 187.6; DB 6; Length 1238;
Best Local Similarity 51.9%; Pred. No. 1.5e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

Qy	427	TCACGATCATGGCCCTCTACTTCATCTGTGCGTGGTGGGCTCTTCGGAATCTTCTGG	486
Db	214	TCGCTATCCAGTGCATCTACGGCTGTGTGCTGTGTGGGCTGTGGGCAACGCCCTGG	273
Qy	487	TCATGTATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTTACATTTCA	546
Db	274	TCATCTTCTGTGATCTTTCGCTAGCCCAAGATGAAGACGGCTACCAACATCTTACCTGCTCA	333
Qy	547	ACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCTTGCCTTCCAGAGTGTGAATTACC	606
Db	334	ACCTGGCCGTAGCGACGAGCTCTTTCATGTCGACGCTGCCCTTCGTGGCCCTCGCTGGCGG	393
Qy	607	TAATGGGAACATGCCCATTTGGAAACCATCTTTTCCAAGATAGTGTATCTCCATAGATTACT	666
Db	394	CCCTGCGCCACTGGCCCTTTCGGCTCGTGTGTGTCGCGCGGTGCTCAGCGTCAACGCGCC	453
Qy	667	ATAACATGTTTCCACAGATATTTCACCTCTGCAACCATGAGTGTGATCGATACATTTGAG	726
Db	454	TCACATGTTTCCACAGCGTCTTCTGTCTCACCGGTGCTCAGCGTGAACGCTACGTGGCGG	513
Qy	727	TCGCGCAACCTGTCAAGGCTTTAGATTTTCGTTACTCTCCCGAAATGCCAAATTTATCATG	786
Db	514	TGGTGCACCTCTTCGCGCGCGCGACCTACCGCGCGCGCCAGCGTGGCGCAAGCTCATCAACC	573
Qy	787	TCGCAACTGATCTCTCTTTCAGCCATTTGCTTCTCTGTAATGTTTCTATGCTCAACAA	846
Db	574	TGGCGTGTGCTGGCAATCCCTGTTGTTGCTACTCTCCCATCGCCATCTTTCGACACACCA	633
Qy	847	AATACAGCGAAGGTTTCCATAGATTTGTACACTAAACATTTCTCATCCAACTGGTGTGGG	906
Db	634	GACCGGCTCGCGGGCGCAGGCCGCTTGCACCTGCAACCTGCACTGGCGCACACCCGCGCTG	693

Qy	667	ATAACATGTTCCACGAGCATATTCACCTCTGCACCATGAGTGTGTGATCGATACATATTCGAG	726
Db	6455	TCACATGTTTACACGAGCTCTTCTGTCTCACCGTGTCTCAGGTGACCGCTAOGTGGCCG	6514
Qy	727	TCTGCCACCTGTCAAGCCCTTAAGTTTCGGTATCTCCCGGAAATGCGAAATTAATCAATG	786
Db	6515	TGGTGCACTCTCTCGCGCGCGACCTACCGCGCGCCAGCGTGGCCAAAGCTCATCAACC	6574
Qy	787	TCTGCAACTGGATCCTCTCTTCAGCCATTGGTCTTCTCTGTAATGTTTATGGCTACACAA	846
Db	6575	TGGCGGTGTGGCTGGCATCCCTGTGTGTCACTCTCCCATCGCCATCTTTCGACAGACCA	6634
Qy	847	AATACAGCAAGGTTCCATAGATTGTACACTTAACATTTCTCTCATCCAACTGGTACTGGG	906
Db	6635	GACCGGCTCGCGCGGCAGCCGGTGGCTGCAACCTGCAAGTGCCACACCCGGGCTTGGT	6694
Qy	907	AAAACCTCGTAGAATCTGTGTTTTCATCTTCGCGCTTCATTATGCCAGTGTCTCATCATTA	966
Db	6695	CGGCAGTTCGTGGTCTACACITTCCTGTGGGCTTCCTGCTGCCGCTGCTGGCCATTG	6754
Qy	967	CCGTGCTATGGAAGTGAATGTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA	1026
Db	6755	GYCTGTGCTACTGCTCATCGTGGCAAGATCGCGCGCTGGCCCTGCGMKGCTGGC	6814
Qy	1027	AAGAAAGGACAGAAATCTTCGAGGATCACAGAGTGTGCTGGTGGTGGCTGTGT	1086
Db	6815	AGCAGCGCAGCGCTCGGAGAGAAATATCACCAGGCTGGTGTGATGGTCTGTGTGTGT	6874
Qy	1087	TCATCGTCTGTGAGCTCCCATTCACATTTACGTCACTATTAAGGCTTGGTTACAATCC	1146
Db	6875	TTGTGCTCTGCTGGATGCTTTTACGTGGTGAGCTGTGAACTCTGTGTGACCAACC	6934
Qy	1147	CAGAAACTAGGTTCCAGACTGTTTCTTTGGCACTTCTGCATTTGCTCTAGGTTTACAAACA	1206
Db	6935	TTGATGCCACCGTCAAC-----CACGGTGCCTTATCTCTAGCTATGCCAAYA	6982
Qy	1207	GCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAACTTCAAAACGATGCTTC	1262
Db	6983	GCTGCGCAACCCGATTTCTATGGTTCCTCTCCGACAACTTCGCGCGATCTTTC	7038

RESULT 11

```

US-11-136-527-2101
; Sequence 2101, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2101
; LENGTH: 3635
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2101

```

376	ATGGTCATTATTCAGTGATCTCGCGCTAGCGCAAGATGAAGACCGCAACCAACATCTACATT	435
543	TTCAACCTTGCTCTGGCAGATGCTTTAGGCACACAGTACCTTGCCCTTCCAGAGTGGAAT	602
436	CTAAACCTTGGCCATTGCTGATGAGCTGCTCATGCTCAGCGTGCCCTTCTTGGTCACTTCC	495
603	TACCTTAATGGGAACATGGCCATTGTGGAAACCATCCTTTGACAGATGATGATCTCCATAGAT	662
496	ACGCTGTTTGGCCCACTGGCCCTTTGGCGGGCTACTTTGGCGCTGCTGCTCAGCGTGGAT	555
663	TACTATAACCATGTTTACCCAGCATATTTACCCCTCTGCACCATGAGTGTCTGATCGATACATT	722
556	GCAGTCAACATGTTTACCCAGCATCTACTGTGTGACTGTGCTTAGTGTGACCGCTATGTG	615
723	GCAGTCTGCCACCCCTGTCAAGGCTTTAGATTTCCGTACTTCCCGAAATGCGCAAAATTTATC	782
616	GCTGTGGWGCACCGGATCAAGCAGCGCGCTACCGTTCGGCCCACTGTGGCCAAAGTAGTG	675
783	AATGTCCTGAACCTGGATTCCTCTCTTCAAGCAATGGTCTTCTCTGTGAATGTTTCATGGC	839
676	AACCTGGCGTGTGGGTGCTGTGCTGCTACTGGTTATCTTGTCCCATCGTGGTCTTCTCACGC	735
840	ACAAACAATACAGGCAAGGTTCCATAGATTGTGACTAAACATTTCTCTCATCCAACTGG	899
736	ACCGCAGCCAAACAGCATGGCAGCGTGGCTGCAACATGCTCATGCCCAGAGCCCGCCAG	795
900	TACTGGGAAACCTCGTGAAGATCTGTGTTTTTTCATCTTGGCCCTTCATTTATGCCAGTGTCTC	959
796	CGTGTGTTGGTGGGCTTCTGCTTTATACATTTCTCATGGGCTTCTCTGCTGTCTGGG	855
960	ATCATTAACCGTGTGCTATGAGTATGATCTTGGCGCTCAAGAGTGTCCGCATGCTCTCT	1019
856	GCCATCTGCTGTGTACGTGCTCATTTGCGCAAGATGCGCATGGTGGCCCTCAAGGCC	915
1020	GGCTCCAAAGAAAGACAGGAATCTTCCGAAGATCACCAGGATGGTGGTGGTGGTG	1079
916	GGCTGGCAGCAGCGCAAGCGCTCAGACGCGAAGATCACTCTAATGTGTGATGATGGTGGTG	975
1080	GCTGTGTTTCATCTGCTGCTGAGCTCCCAATTCATATTAAGTTCATCAATTAAGACCTTGGTT	1139
976	ATGGTTTTTGTCTATCTGTGGATGCTTTCTAGTGGTACAGCTAGTCAACGTGTTGCGC	1035
1140	ACAATCCCAGAACTACGTTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTAC	1199
1036	GAGCAAGACGACGCCACGGT-----GAGCCAGTTGTCTGTCTCATCTCGGCTAT	1083
1200	ACAAACAGCTGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAACACTTCAACGATGC	1259
1084	GCCAAATAGTGTGCCAACCCCATCTCTACGGCTTCTCTCGGACAACTTCAAGCGCTCT	1143
1260	TTC 1262	
1144	TTC 1146	

RESULT 12

US-11-136-527-2159

; Sequence 2159, Application US/11136527

; Publication No. US20050287570A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes

; FILE REFERENCE: 031896-041000 (AM101086)

; CURRENT APPLICATION NUMBER: US/11/136,527

; CURRENT FILING DATE: 2005-05-25

; PRIOR APPLICATION NUMBER: US 60/574,294

; PRIOR FILING DATE: 2005-05-26

; NUMBER OF SEQ ID NOS: 362830

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 2159

; LENGTH: 1384

; TYPE: DNA

RESULT 14
US-10-533-355-9
; Sequence 9, Application US/10533355
; Publication No. US20050272040A1
; GENERAL INFORMATION:
; APPLICANT: University of Medicine and Dentistry of New Jersey
; APPLICANT: Black, Ira B.
; TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
; FILE REFERENCE: UMD-0016
; CURRENT APPLICATION NUMBER: US/10/533,355
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: US 60/422,986
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1865
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-533-355-9

Query Match 7.3%; Score 158.8; DB 6; Length 1865;
Best Local Similarity 50.5%; Pred. No. 1.3e-37;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;
QY 427 TCACGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCCTGG 486
DB 189 TAACTATCAGTGATCTATGCGCTGTGTGTGTGGGCTGTGTAGAAAGCCCTGG 248
QY 487 TCATGTATGTATGTTCAGATACACCAAGATGAAGACTGCCAACACATCTACATTTCA 546
DB 249 TCATATTCGTGATCTCTAGCTATGCCAAATGAAGACGCCAACATCTACCTGTCA 308
QY 547 ACCTTGCTTCGACATGCTTAGCCACCAAGTACCTGCTCCCTCCAGAGTGTGAATACC 606
DB 309 ACCTGGCCGCTGCTGATGAGCTCTTCATGCTCAGTGTGCCATTTGTGGCTCGGGCTG 368
QY 607 TAATGGACATGGCCATTTGGAACCATCTTTTGAAGATAGTATCTCCATAGATTACT 666
DB 369 CCCTGGCCCACTGGCCGTTTCGGGGGGTGTGTGTGGCGGAGTCTTAGTGTGGACGCC 428
QY 667 ATAACATGTTTACACGACATATTCACCCCTCTGCACCATGATGTTGATCGATATGCAG 726
DB 429 TTAACATGTTTACGAGTGTCTTTCGCTCACAGTGTCTCAGCTGTGATCGTATGTGGTG 488
QY 727 TCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCGCAAAATATCAATG 786
DB 489 TAGTGCACCTCTGCGAGCTGCCACCTACCGCGGCCCGAGCTGTGCCAAGCTTAATCAACC 548
QY 787 TCTGCAACTGGATCTCTCTTCAGCCATTTGCTTCCTGTATGTTCATGTGCTACACAA 846
DB 549 TGGGAGTGTGGCTAGCATCTTTGTGGTACCCCTGCCATCGCAGTCTTTCGCTGACACTA 608
QY 847 AATACAGGCAAGGTTTCCATAGATTTGACACTAACATTTCTCTCATCCAACTGGTACTGGG 906
DB 609 GSCCAGCTGTGGGGTGAGGAGTAGCTTGAACCTGCACCTGCGCTCAACCGGCTGTGT 668
QY 907 AAAACCTGTGAAGATCTGTGTTTCACTTCGCTTCATTAATGCAAGTGTCTCATTA 966
DB 669 CTGCAGTCTTTGTGATCTATACTTTTTTGTGGTCTCTACTCCCGGTTCTGGCTATCG 728
QY 967 CGGTGTGTATGGATGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCA 1026
DB 729 GATTATGTTACTGTCTTATCGTGGGCAAGATGCGTGTGTGGCCCTCGGGCTGGCTGGC 788
QY 1027 AAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGGTGGTGTGT 1086
DB 789 AACACGAGGCGCTCAGAGAGAGATCACTAGGCTGTGTCTAATGTGTGACTGTCT 848
QY 1087 TCATCGTCTGTGGACTCCCAATTCATTTACGTCAATTAAGCCCTTGGTTACAATCC 1146
DB 849 TTGTGCTATGCTGGATGCCATCTTATGTAGTGCAGCTTCTGAATCTGTTTGTACACGCC 908

QY 1147 CAGAACTACGTTCCAGACTGTTTCTTGGCAGCTTCTGCAATGCTCTAGGTTACACAAACA 1206
DB 909 TCGATGCCACTGTCAACCATGTGTCCTCATCTCCTCAGCTATGCC-----AACA 956
QY 1207 GCTGCTCAACCCAGTCTCTTTATGATGATTTCTGGATGAAACTTCAACGATGCTTC 1262
DB 957 GCTGTGCCAACCCGATTTCTATGTTTCTCTCAGACAACTTCCGAGGCTCTTTC 1012

RESULT 15
US-10-750-185-62128/c
; Sequence 62128, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62128
; LENGTH: 856
; TYPE: DNA
; ORGANISM: Bovine 19866881260208
US-10-750-185-62128

Query Match 7.0%; Score 151.8; DB 6; Length 856;
Best Local Similarity 93.0%; Pred. No. 9.7e-36;
Matches 159; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 1212 CTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAAACTTCAAAACGATGCTTCAGAGAGTTC 1271
DB 856 CTGAACCCCGTCTTTATGCAATTTCTGGATGAAAACTTCAAAACGATGCTTCAGAGAGTTC 797
QY 1272 TGATCCCAACCTCTTCCAACTTGAGCAACAAACTCCACTCGAATTCGTCAGAACT 1331
DB 796 TGATCCCAACTTCTCCCACTTGAGCAACAAACTCCACTCGAATTCGTCAGAACT 737
QY 1332 AGAGACCACCCCTCCAGCGCAATACAGTGGATAGAACTAATCATCATGCTA 1382
DB 736 AGAGACCACCCCTCCAGCGCAATACAGTGGATAGAACTAATCATCATGCTA 686

Search completed: January 9, 2006, 15:42:40
Job time : 311.944 secs